Name

**ID# 101** 

#### Motorola Transceiver; Astro Spectra W4



Model Number(s) Astro Spectra W4

**Technology** Mobile, conventional and trunked portable radio

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196

800-247-2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

**Secure Communication Capability** Yes

**Availability** Available

Frequency Range VHF: 136 MHz to 174 MHz

UHF: 403 MHz to 433 MHz, 438 MHz to 470 MHz 450 MHz to 482 MHz and 482 MHz to 512 MHz 800 MHz: 806 MHz to 824 MHz and 851 MHz to

 $870~\mathrm{MHz}$ 

One

Number of Personnel Supported by

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

Number of Channels128 channelsTransmitter Power Output Levels10 W to 110 WBattery OptionsLimited optionsBattery Recharging OptionsNot specified

Physical Parameters

**Size** 2 in x 7.1 in x 2.2 in

Weight 6.1 lb
Power Requirements 12 V dc
External Power Not specified

Available Accessories

**Speaker-Microphones** Yes

E-201 ID# 101

Carrying Cases No

Battery Eliminators Not specified
Vehicle Adapters Not specified

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$2.4K MSRP and contact dealer for discount pricing

Battery Cycle LifeNot specifiedRapid Charge Battery Cycle LifeNot specifiedMaintenance CostNot specifiedInterface CapabilityNot specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810E

Intrinsically Safe Not specified

E-202 ID# 101

Name

**ID# 102** 

#### Motorola Transceiver; Astro Spectra W5



Model Number(s) Astro Digital Spectra W5

**Technology** Mobile, conventional and trunked portable radio

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196

800-247-2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

Multiple

**Secure Communication Capability** Yes

**Availability** Available

Frequency Range VHF: 136 MHz to 174 MHz

UHF: 403 MHz to 433 MHz, 438 MHz to 470 MHz 450 MHz to 482 MHz, and 482 MHz to 512 MHz

800 MHz: 806 MHz to 870 MHz

**Number of Personnel Supported by** 

System

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

Number of Channels 128 channels

**Transmitter Power Output Levels** 10 W to 110 W (35 W on 800 MHz)

**Battery Options**Not applicable **Battery Recharging Options**Not applicable

Physical Parameters

**Size** 2 in x 7.1 in x 2.2 in

Weight 6.1 lb
Power Requirements 12 V dc

External Power Not applicable

Available Accessories

**Speaker-Microphones** Not applicable

E-203 ID# 102

Carrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$2.4K MSRP and contact dealer for discount pricing

Battery Cycle LifeNot specifiedRapid Charge Battery Cycle LifeNot specifiedMaintenance CostNot specifiedInterface CapabilityDigital capable

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810E

Intrinsically Safe Not specified

E-204 ID# 102

Name

**ID# 103** 

#### Motorola Transceiver; Astro Spectra W7



Model Number(s) Astro Digital Spectra W7

**Technology** Mobile, conventional and trunked portable radio

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196

800-247-2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

Multiple

**Secure Communication Capability** Yes

**Availability** Available

Frequency Range VHF: 136 MHz to 174 MHz

UHF: 403 MHz to 433 MHz, 438 MHz to 470 MHz 450 MHz to 482 MHz, and 482 MHz to 512 MHz

800 MHz: 806 MHz to 870 MHz

**Number of Personnel Supported by** 

System

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

Number of Channels 255 channels

**Transmitter Power Output Levels** 10 W to 110 W (35 W on 800 MHz)

Battery Options Not applicable
Battery Recharging Options Not applicable

Physical Parameters

**Size** 2 in x 7.1 in x 2.2 in

Weight 6.1 lb
Power Requirements 12 V dc

External Power Not applicable

**Available Accessories** 

**Speaker-Microphones** Not applicable

E-205 ID# 103

Carrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$2.7K MSRP and contact dealer for discount pricing

Battery Cycle LifeNot specifiedRapid Charge Battery Cycle LifeNot specifiedMaintenance CostNot specifiedInterface CapabilityDigital capable

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810E

Intrinsically Safe Not specified

E-206 ID# 103

Name

**ID# 104** 

#### Motorola Transceiver; Astro Spectra W9



Model Number(s) Astro Digital Spectra W9

**Technology** Mobile, conventional and trunked portable radio

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196

800-247-2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

Multiple

**Secure Communication Capability** Yes

**Availability** Available

Frequency Range VHF: 136 MHz to 174 MHz

UHF: 403 MHz to 433 MHz, 438 MHz to 470 MHz 450 MHz to 482 MHz, and 482 MHz to 512 MHz

800 MHz: 806 MHz to 870 MHz

**Number of Personnel Supported by** 

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

Number of Channels255 channelsTransmitter Power Output Levels10 W to 110 WBattery OptionsNot applicableBattery Recharging OptionsNot applicable

Physical Parameters

**Size** 3.4 in x 6.5 in x 1.7 in

Weight 6.1 lb

Power Requirements 12 V dc

External Power Not applicable

**Available Accessories** 

**Speaker-Microphones** Not applicable

E-207 ID# 104

Carrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$3K MSRP and contact dealer for discount pricing

Battery Cycle LifeNot specifiedRapid Charge Battery Cycle LifeNot specifiedMaintenance CostNot specifiedInterface CapabilityDigital capable

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810E

Intrinsically Safe Not specified

E-208 ID# 104

Name Motorola Transceiver, Portable; VISAR

**ID# 105** 

Model Number(s) VISAR

**Technology** Portable, conventional

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196

800-247-2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

Unlimited

**Secure Communication Capability** No

**Availability** Available

Frequency Range VHF: 136 MHz to 178MHz

UHF:  $403~\mathrm{MHz}$  to  $470~\mathrm{MHz}$  and  $450~\mathrm{MHz}$  to  $520~\mathrm{MHz}$ 

800 MHz: 806 MHz to 866 MHz

**Number of Personnel Supported by** 

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

**Number of Channels**16 channels **Transmitter Power Output Levels**1 W to 5 W

**Battery Options** 2 NiCad 1200 mAH; 1 NiMH 600 mAH; 1 NiMH 1300

mAH; and 1 NiMH 1500 mAH

**Battery Recharging Options** 1 desktop, single unit standard charge rate charger; 4

desktop, dual unit rapid charge rate chargers; 16 unit rapid rate charger; 2 multi unit battery maintenance systems;

2 multi unit battery optimizing systems; and 5

conditioning chargers

Physical Parameters

Size 4.1 in x 2.2 in x 0.6 in (without battery)

Weight 4.8 oz (without battery)

**Power Requirements** 7.5 V dc

E-209 ID# 105

**External Power** Yes, with optional battery eliminator

Available Accessories

**Speaker-Microphones** 1 standard model available; 3 ear worn speaker

microphones available

Carrying Cases; 2 nylon carrying cases; 1 belt clip;

universal chest pack; breakaway chest pack; and universal

radio pack (worn around waist)

**Battery Eliminators** Yes, available from Motorola

Vehicle Adapters No

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness** Withstands rain testing; impact resistant housing, and

weather resistant housing

**Environmental Conditions** -22 °F to 140 °F

Unit Cost \$1.1K MSRP, contact dealer for discount pricing

**Battery Cycle Life** 4+ h at 5/5/90 cycle

Rapid Charge Battery Cycle Life

Maintenance Cost

Interface Capability

Not specified

Not specified

Not specified

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and

Mil Spec 810E

Intrinsically Safe Intrinsically safe option available

E-210 ID# 105

Name Motorola Transceiver, Portable; HT 1000

**ID# 106** 

Model Number(s) HT 1000

**Technology** Portable, conventional

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196

800-247-2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

Secure Communication Capability Not specified

**Availability** Available

Frequency Range VHF: 136 MHz to 174 MHz

UHF: 403 MHz to 470 MHz and 450 MHz to 520 MHz 800 MHz: 806 MHz to 825 MHz and 851 MHz to

870 MHz Unlimited

**Number of Personnel Supported by** 

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

**Number of Channels** 2 channels to 16 channels

**Transmitter Power Output Levels** 1 W to 5 W

Battery Options

3 NiCad 1200 mAH; 1 NiCad 1300 mAH; 4 NiCad 1400 mAH; 1 NiMH 1900 mAH; and 1 NiMH 2000 mAH

**Battery Recharging Options** 7 desktop, single unit rapid charge rate chargers; 3

desktop, single unit standard charge rate chargers; 3 multi unit rapid rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 5

conditioning chargers

Physical Parameters

**Size** 6.3 in x 2.3 in x 1.5 in (without battery)

Weight 3.2 oz (without battery)

**Power Requirements** 7.5 V dc

E-211 ID# 106

**External Power** Yes, with optional battery eliminator

**Available Accessories** 

**Speaker-Microphones** 5 standard models available; 6 ear worn speaker

microphones available

Carrying Cases 12 leather carrying cases; 1 nylon carrying case; 2 belt

clips; universal chest pack; breakaway chest pack; standard chest pack; and universal radio pack (worn around waist)

**Battery Eliminators** Yes, available from Motorola

Vehicle Adapters Not specified

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessDurable

**Environmental Conditions** -22 °F to 140 °F

Unit Cost \$1K MSRP and contact dealer for discount pricing

Battery Cycle Life9 h at 5/5/90 cycleRapid Charge Battery Cycle LifeNot specifiedMaintenance CostNot specifiedInterface CapabilityNot specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and

Mil Spec 810E

Intrinsically Safe Intrinsically safe option available

E-212 ID# 106

Name Motorola Transceiver, Portable; JT 1000

**ID# 107** 



Model Number(s) JT 1000

**Technology** Portable, conventional

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196 800–247–2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

Unlimited

Secure Communication Capability Not specified

**Availability** Available

Frequency Range VHF: 136 MHz to 174 MHz

UHF:  $403~\mathrm{MHz}$  to  $470~\mathrm{MHz}$  and  $450~\mathrm{MHz}$  to  $512~\mathrm{MHz}$ 

**Number of Personnel Supported by** 

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

**Number of Channels** 16 channels **Transmitter Power Output Levels** 1 W to 5 W

**Battery Options** 1 NiCad 1200 mAH; 1 NiCad 1400 mAH;

and 1 NiMH 2000 mAH

**Battery Recharging Options** 7 desktop, single unit rapid charge rate chargers; 3 desktop,

single unit standard charge rate chargers; 1 multi unit rapid rate charger; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 5 conditioning

chargers

Physical Parameters

**Size** 6.3 in x 2.3 in x 1.5 in (without battery)

Weight 9.6 oz (without battery)

**Power Requirements** 7.5 V dc

**External Power** Yes, with optional battery eliminator

E-213 ID# 107

**Available Accessories** 

**Speaker-Microphones** 5 standard models available; 6 ear worn speaker

microphones available

Carrying Cases; 2 nylon carrying cases; 2 belt

clips; universal chest pack; breakaway chest pack; standard chest pack; and universal radio pack (worn around waist)

**Battery Eliminators** Yes, available from Motorola

Vehicle Adapters Not specified

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$1.2K MSRP and contact dealer for discount pricing

Battery Cycle LifeNot specifiedRapid Charge Battery Cycle LifeNot specifiedMaintenance CostNot specifiedInterface CapabilityNot specified

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and

Mil Spec 810E

Intrinsically Safe Intrinsically safe option available

E-214 ID# 107

Name Motorola Transceiver, Portable; MT 2000 VHF

**ID# 108** 



Model Number(s) MT 2000 Model I

**Technology** Portable, conventional and trunked

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196

800-247-2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

**Secure Communication Capability** No

**Availability** Available

Frequency Range VHF: 136 MHz to 178 MHz

UHF: 405 MHz to 470 MHz and 450 MHz to 520 MHz

800 MHz: 806 MHz to 870 MHz

**Number of Personnel Supported by** 

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

Number of Channels 48 channels to 160 channels (depending upon

configuration)
1 W to 5 W

Unlimited

**Transmitter Power Output Levels** 

**Battery Options** NiCad: 4 high capacity (1200 or 1300 mAH); 4 ultra high

capacity (1400 mAH) NiMH: 2 high capacity (1900 mAH

and 2000 mAH)

**Battery Recharging Options** 7 desktop, single unit rapid charge rate chargers; 3 desktop,

single unit regular charge rate chargers; 2 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing

systems; and 4 multi units

Physical Parameters

**Size** 6.3 in x 2.3 in x 1.5 in (without battery)

**Weight** 9.6 oz (without battery)

**Power Requirements** 6 V dc to 9 V dc

E-215 ID# 108

**External Power** Yes, with optional battery eliminator

Available Accessories

**Speaker-Microphones** 5 standard models available and 6 ear worn speaker

microphones available

Carrying Cases 11 leather carrying cases; 1 nylon carrying case; 2 belt

clips; universal chest pack; breakaway chest pack; standard chest pack; and universal radio pack (worn around waist)

**Battery Eliminators** Yes, available from Motorola

**Vehicle Adapters** Yes

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Designed for ruggedness and weather sealed universal

connector

**Environmental Conditions** -22 °F to 140 °F

Unit Cost \$1.3K MSRP and contact dealer for discount pricing

Battery Cycle Life8 h at 5/5/90 cycleRapid Charge Battery Cycle LifeNot applicableMaintenance CostNot specifiedInterface CapabilityNot specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and

Mil Spec 810E

Intrinsically Safe Intrinsically safe option available

E-216 ID# 108

Name

**ID# 109** 

#### Motorola Transceiver, Portable; MTS 2000 Model I



Model Number(s) MTS 2000 Model I

**Technology** Portable, conventional and trunked

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196 800–247–2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

**Secure Communication Capability** Yes

**Availability** Available

Frequency Range VHF: 136 MHz to 178 MHz

UHF: 405 MHz to 470 MHz and 450 MHz to 520 MHz 800 MHz: 806 MHz to 825 MHz, 851 MHz to 870 MHz, 896 MHz to 902 MHz, and 935 MHz to 941 MHz

Number of Personnel Supported by

System

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

Number of Channels

48 channels

Transmitter Power Output Levels

1 W to 5 W

**Battery Options** NiCad: 4 high capacity (1200 or 1300 mAH); 4 ultra high

Multiple

capacity (1400 mAH) NiMH: 2 high capacity (1900 mAH

and 2000 mAH)

**Battery Recharging Options** 7 desktop, single unit rapid charge rate chargers; 3 desktop,

single unit regular charge rate chargers; 3 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing

systems; and 4 multi units

**Physical Parameters** 

**Size** 6.3 in x 2.3 in x 1.5 in (without battery)

**Weight** 9.6 oz (without battery)

**Power Requirements** 6 V dc to 9 V dc

E-217 ID# 109

**External Power** Yes, with optional battery eliminator

Available Accessories

**Speaker-Microphones** 3 standard models available; 6 ear worn speaker

microphones available

Carrying Cases 11 leather carrying cases; 1 nylon carrying case; 2 belt

clips; universal chest pack; breakaway chest pack; standard chest pack; and universal radio pack (worn around waist)

**Battery Eliminators** Yes, available from Motorola

**Vehicle Adapters** Yes

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness** Designed for ruggedness and weather sealed universal

connector

**Environmental Conditions** -22 °F to 140 °F

Unit Cost \$1.7K MSRP, contact dealer for discount pricing

Battery Cycle Life8 h at 5/5/90 cycleRapid Charge Battery Cycle LifeNot applicableMaintenance CostNot specifiedInterface CapabilityNot specified

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and

Mil Spec 810E

Intrinsically Safe Intrinsically safe option available

E-218 ID# 109

Name Motorola Transceiver, Portable; MTS 2000 Model II

**ID# 110** 

Model Number(s) MTS 2000 Model II

**Technology** Portable, conventional and trunked

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196

800-247-2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

**Secure Communication Capability** Yes

**Availability** Available

Frequency Range VHF: 136 MHz to 178 MHz

UHF: 405 MHz to 470 MHz and 450 MHz to 520 MHz 800/900 MHz: 806 MHz to 870 MHz, and 896 MHz to

941 MHz Multiple

**Number of Personnel Supported by** 

System

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

Number of Channels

Transmitter Power Output Levels

160 channels
1 W to 5 W

**Battery Options** NiCad: 4 high capacity (1200 or 1300 mAH); 4 ultra high

capacity (1400 mAH) NiMH: 2 high capacity (1900 mAH

and 2000 mAH)

**Battery Recharging Options** 7 desktop, single unit rapid charge rate chargers; 3 desktop,

single unit regular charge rate chargers; 3 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing

systems; and 4 multi units

Physical Parameters

Size 6.3 in x 2.3 in x 1.5 in (without battery)

Weight 11.2 oz (without battery)

E-219 ID# 110

**Power Requirements** 6 V dc to 9 V dc

**External Power** Yes, with optional battery eliminator

Available Accessories

**SpeakerMicrophones** 3 standard models available; 6 ear worn speaker

microphones available

Carrying Cases 11 leather carrying cases; 1 nylon carrying case; 2 belt

clips; universal chest pack; breakaway chest pack; standard chest pack; and universal radio pack (worn around waist)

**Battery Eliminators** Yes, available from Motorola

**Vehicle Adapters** Yes

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Designed for ruggedness; weather sealed universal

connector

**Environmental Conditions** -22 °F to 140 °F

Unit Cost \$2.1K MSRP and contact dealer for discount pricing

Battery Cycle Life8 h at 5/5/90 cycleRapid Charge Battery Cycle LifeNot applicableMaintenance CostNot specifiedInterface CapabilityNot specified

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and

Mil Spec 810E

Intrinsically Safe

Intrinsically safe option available

E-220 ID# 110

Name Motorola Transceiver, Portable; MTS 2000 Model III

**ID# 111** 

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Model Number(s) MTS 2000 Model III

**Technology** Portable, conventional and trunked

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196

800-247-2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

**Secure Communication Capability** Yes

**Availability** Available

Frequency Range VHF: 136 MHz to 178 MHz

UHF: 405 MHz to 470 MHz and 450 MHz to 520 MHz 800/900 MHz: 806 MHz to 870 MHz and 896 MHz to

941 MHz Multiple

**Number of Personnel Supported by** 

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

Number of Channels

Transmitter Power Output Levels

160 channels
1 W to 5 W

**Battery Options** NiCad: 4 high capacity (1200 or 1300 mAH); 4 ultra high

capacity (1400 mAH) NiMH: 2 high capacity (1900 mAH

and 2000 mAH)

**Battery Recharging Options** 7 desktop, single unit rapid charge rate chargers; 3 desktop,

single unit regular charge rate chargers; 3 desktop, multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing

systems; and 4 multi units

**Physical Parameters** 

Size 6.3 in x 2.3 in x 1.5 in (without battery)

Weight 11.2 oz (without battery)

E-221 ID# 111

**Power Requirements** 6 V dc to 9 V dc

**External Power** Yes, with optional battery eliminator

Available Accessories

**Speaker-Microphones** 3 standard models available and 6 ear worn speaker

microphones available

Carrying Cases 11 leather carrying cases; 1 nylon carrying case; 2 belt

clips; universal chest pack; breakaway chest pack; standard chest pack; and universal radio pack (worn around waist)

**Battery Eliminators** Yes, available from Motorola

**Vehicle Adapters** Yes

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness** Designed for ruggedness; weather sealed universal

connector

**Environmental Conditions** -22 °F to 140 °F

Unit Cost \$2.5K MSRP and contact dealer for discount pricing

Battery Cycle Life 8 h at 5/5/90 cycle
Rapid Charge Battery Cycle Life Not applicable
Maintenance Cost Not specified
Interface Capability Not specified

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, M

Meets Mil Spec 810C, Mil Spec 810D, and

Mil Spec 810E

Intrinsically Safe Intrinsically safe option available

E-222 ID# 111

Name

Motorola Trunked Portable Radio; MTX 8000

Model B3

**ID# 112** 



Model Number(s) MTX 8000 Model B3

**Technology** Portable, conventional and trunked

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196 800–247–2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

Secure Communication Capability Not specified

**Availability** Available

Frequency Range 851 MHz to 870 MHz (8000) 896 MHz to 941 MHz (9000)

Number of Personnel Supported by Multiple

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

**Number of Channels** 4/4 or 15/10 systems/talk groups

**Transmitter Power Output Levels** 3 W

**Battery Options**3 NiCad 1200 mAH; 1 NiCad 1300 mAH; 4 NiCad 1400 mAH; 1 NiMH 1900 mAH; and 1 NiMH 1900 mAH

**Battery Recharging Options** 7 desktop, single unit rapid charge rate chargers; 3 desktop,

single unit standard charge rate chargers; 3 multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 5

conditioning chargers

<u>Physical Parameters</u>

Size 6.3 in x 2.3 in x 0.6 in (without battery)

**Weight** 9.6 oz (without battery)

**Power Requirements** 6 V dc to 9 V dc

**External Power** Yes, with optional battery eliminator

E-223 ID# 112

Available Accessories

**Speaker-Microphones** 5 standard models available; 8 ear worn speaker

microphones available

Carrying Cases; 1 nylon carrying cases; 2 belt

clips; universal chest pack; breakaway chest pack; standard

chest pack; universal radio pack (worn around waist)

**Battery Eliminators** Yes, available from Motorola

Vehicle Adapters No

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$910 MSRP contact dealer for discount pricing

Battery Cycle LifeNot specifiedRapid Charge Battery Cycle LifeNot specifiedMaintenance CostNot specifiedInterface CapabilityNot specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and

Mil Spec 810E

Intrinsically Safe No

E–224 ID# 112

Name Motorola Trunked Portable Radio; MTX 8000 Model B5

**ID# 113** 



Model Number(s) MTX 8000 Model B5

**Technology** Portable, conventional and trunked

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196

800-247-2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

Secure Communication Capability Not specified

**Availability** Available

**Frequency Range**851 MHz to 870 MHz (8000)
896 MHz to 941 MHz (9000)

070 MITE (0 741 MITE (70

Multiple

**Number of Personnel Supported by** 

System

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

**Number of Channels** 4/4 or 15/10 systems/talk groups

**Transmitter Power Output Levels** 3 W

**Battery Options** 3 NiCad 1200 mAH; 1 NiCad 1300 mAH; 4 NiCad 1400

mAH; 1 NiMH 1900 mAH; and 1 NiMH 1900 mAH

**Battery Recharging Options** 7 desktop, single unit rapid charge rate chargers; 3 desktop,

single unit standard charge rate chargers; 3 multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 5

conditioning chargers

Physical Parameters

Size 6.3 in x 2.3 in x 0.7 in (without battery)

Weight 11.2 oz (without battery)

**Power Requirements** 6 V dc to 9 V dc

E-225 ID# 113

**External Power** Yes, with optional battery eliminator

Available Accessories

5 standard models available; 8 ear worn speaker **Speaker-Microphones** 

microphones available

**Carrying Cases** 12 leather carrying cases; 1 nylon carrying cases; 2 belt

clips; universal chest pack; breakaway chest pack; standard chest pack; and universal radio pack (worn around waist)

Yes, available from Motorola **Battery Eliminators** 

No **Vehicle Adapters** 

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

Not specified **Decontamination** Standard use **Durability/Ruggedness** -22 °F to 140 °F **Environmental Conditions** 

\$1.1K MSRP and contact dealer for discount pricing **Unit Cost** 

**Battery Cycle Life** Not specified **Rapid Charge Battery Cycle Life** Not specified **Maintenance Cost** Not specified **Interface Capability** Not specified

Special Requirements

**Operator Skills Required** Average **Operator Training Requirements** Average **Training Available** Yes **Manuals Available** Yes

Not specified applicable Regulations Available **Support Equipment** Warranty 1 yr

Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec/Mil-Std Ratings

Mil Spec 810E

No **Intrinsically Safe** 

> E-226 ID# 113

Name Motorola Trunked Portable Radio; MTX 8000/9000 Model B7

**ID# 114** 



Model Number(s) MTX 8000/9000 Model B7

**Technology** Portable, conventional and trunked

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196 800–247–2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

Secure Communication Capability Not specified

**Availability** Available

Frequency Range 851 MHz to 870 MHz (8000)

896 MHz to 941 MHz (9000)

**Number of Personnel Supported by** 

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

**Number of Channels** 4/4 or 15/10 Systems/talkgroups

**Transmitter Power Output Levels** 3 W

**Battery Options** 3 NiCad 1200 mAH; 1 NiCad 1300 mAH; 4 NiCad 1400

Multiple

mAH; 1 NiMH 1900 mAH; and 1 NiMH 1900 mAH

**Battery Recharging Options** 7 desktop, single unit rapid charge rate chargers; 3 desktop,

single unit standard charge rate chargers; 3 multi unit rapid charge rate chargers; 2 multi unit battery maintenance systems; 2 multi unit battery optimizing systems; and 5

conditioning chargers

**Physical Parameters** 

Size 6.3 in x 2.3 in x 0.7 in (without battery)

Weight 11.2 oz (without battery)

**Power Requirements** 7.5 V dc

E-227 ID# 114

**External Power** Yes, with optional battery eliminator

Available Accessories

**Speaker-Microphones** 5 standard models available; 8 ear worn speaker

microphones available

Carrying Cases: 1 nylon carrying cases; 2 belt

clips; universal chest pack; breakaway chest pack; standard chest pack; and universal radio pack (worn around waist)

**Battery Eliminators** Yes, available from Motorola

Vehicle Adapters No

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$1.3K MSRP and contact dealer for discount pricing

Battery Cycle LifeNot specifiedRapid Charge Battery Cycle LifeNot specifiedMaintenance CostNot specifiedInterface CapabilityNot specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and

Mil Spec 810E

**Intrinsically Safe** No

E-228 ID# 114

Name Motorola Station/Repeater; QUANTAR

**ID# 115** 

Picture Not Available

Model Number(s) QUANTAR

**Technology** Functions as a base station or repeater (conventional or

trunking)

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196 800–247–2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

**Secure Communication Capability** Yes

**Availability** Available

Frequency Range VHF: 132 MHz to 174 MHz

UHF: 403 MHz to 433 MHz, 438 MHz to 470 MHz, 470

MHz to 494 MHz, and 494 MHz to 512 MHz

800/900 MHz: 806 MHz to 870 MHz and 896 MHz to

941 MHz Unlimited

**Number of Personnel Supported by** 

**System** 

Geographic Coverage

Current User(s)

Not applicable

Not specified

Motorola

**Operational Parameters** 

Number of ChannelsNot specifiedTransmitter Power Output Levels25 W to 125 W

Battery OptionsBackup battery system availableBattery Recharging OptionsBackup battery system available

Physical Parameters

**Size** 8.8 in x 19 in x 17 in

Weight 55 lb

**Power Requirements** 25 W Model: 12 V dc

100 W to 125 W Models: 24 V dc Backup battery system available

External Power

Available Accessories

Speaker-Microphones Not applicable

E-229 ID# 115

Carrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$11K MSRP and contact dealer for discount pricing

Battery Cycle LifeNot specifiedRapid Charge Battery Cycle LifeNot specifiedMaintenance CostNot specifiedInterface CapabilityDigital capability

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yrMil Spec/Mil-Std RatingsNo

Intrinsically Safe Not specified

E-230 ID# 115

Name Motorola Station/Repeater; QUANTRO

**ID# 116** 

Picture Not Available

Model Number(s) QUANTRO

**Technology** Repeater, conventional or trunking base station or repeater

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196 800–247–2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

**Secure Communication Capability** Yes

**Availability** Available

Frequency Range VHF: 132 MHz to 174 MHz

UHF: 403 MHz to 433 MHz, 438 MHz to 470 MHz, 470

MHz to 494 MHz, and 494 MHz to 512 MHz

800/900 MHz: 806 MHz to 870 MHz and 896 MHz to

941 MHz Unlimited

Number of Personnel Supported by

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

**Number of Channels** Up to 128 modes

Transmitter Power Output Levels2 W to 20 W or 3 W to 30 WBattery OptionsBackup battery system availableBattery Recharging OptionsBackup battery system available

Physical Parameters

**Size** 8.8 in x 19 in x 17 in

Weight 55 lb

**Power Requirements**Multiple options depending on power output of transmitter

**External Power** Backup battery system available

Available Accessories

Speaker-Microphones Not applicable
Carrying Cases Not applicable

E-231 ID# 116

Battery Eliminators Not applicable
Vehicle Adapters Not applicable

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$11K MSRP and contact dealer for discount pricing

Battery Cycle LifeNot specifiedRapid Charge Battery Cycle LifeNot specifiedMaintenance CostNot specifiedInterface CapabilityDigital capable

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yrMil Spec/Mil-Std RatingsNo

Intrinsically Safe Not specified

E-232 ID# 116

Name Motorola Portable Repeater; Portable Repeater 2

**ID# 117** 

Picture Not Available

Model Number(s)Portable Repeater 2TechnologyConventional repeater

Manufacturer Motorola USA

1301 E. Algonquin Road Schaumburg, Illinois 60196 800–247–2346 (Tel)

POC: Ron Zeberlein 410–712–6014 (Tel)

**Secure Communication Capability** Yes

**Availability** Available

Frequency Range

VHF: 136 MHz to 174 MHz

UHF: 406 MHz to 512 MHz

Number of Personnel Supported by Unlimited

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Motorola

**Operational Parameters** 

**Number of Channels** Up to 128 modes

**Transmitter Power Output Levels** 2 W to 20 W or 3 W to 30 W **Battery Options** Internal emergency battery

Battery Recharging Options Internal emergency backup battery recharger

Physical Parameters

**Size** 19.8 in x 13.3 in x 7.8 in

Weight 40 lb

**Power Requirements** 110 V ac/240 V ac or external 12 V dc

External Power 12 V dc

Available Accessories

Speaker-MicrophonesNot applicableCarrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

E-233 ID# 117

# **Logistical Parameters**

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$16K MSRP and contact dealer for discount pricing

Battery Cycle LifeNot specifiedRapid Charge Battery Cycle LifeNot specifiedMaintenance CostNot specifiedInterface CapabilityNot specified

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty1 yrMil Spec/Mil-Std RatingsNoIntrinsically SafeNo

E-234 ID# 117

Name Racal Transceiver, Portable; MBITR (Multiband

Inter/Intra Team Radio)
ID# 118

Model Number(s) Multiband Inter/Intra Team Radio

AN/PRC-14(V)(C)

**Technology** Portable, conventional

Manufacturer Racal Communications Inc.

5 Research Place

Rockville, Maryland 20850 301–948–4420 (Tel) 301–948–6371 (Fax) www.racalcomm.com

POC: Steve Nichols 301–208–7654 (Tel)

steve.nichols@racalcomm.com

**Secure Communication Capability** 2 levels embedded: Type 1 COMSEC, commercial

COMSEC

Unlimited

Keyfill devices: CYZ 10 (DTD), KYK 13, KOI 18

**Availability** Available

Frequency Range 30 MHz to 512 MHz

**Number of Personnel Supported by** 

System

Geographic Coverage 5 W FM/AM LOS, UHF military satellite with proper

antenna

Current User(s) U.S. SOCOM

**Source** Racal Communications Inc.

**Operational Parameters** 

**Number of Channels** 100 memory preset channels

**Transmitter Power Output Levels** 5 levels: 0.1 W, 0.5 W, 1 W, 3 W, and 5 W (FM)

2 levels: 1 W and 5 W (AM)

Battery Options Lithium-Ion rechargeable battery

nonrechargeable, disposable, and lithium cells

Battery Recharging Options An ac powered single battery charger, ac/dc powered

6-way battery charger, and vehicular charger

Physical Parameters

Size  $8.4 \text{ in } \times 2.6 \text{ in } \times 1.5 \text{ in (with battery)}$ 

E-235 ID# 118

Weight 30.6 oz (with battery)

Power Requirements Not specified

External Power 120 V ac, 240 V ac, 12 V dc via chargers

Available Accessories

**Speaker-Microphones** Speaker microphone and audio connector is compatible

with standard military audio devices

Carrying CasesRadio system carrying bagBattery EliminatorsSAPI accepts 1 V to 32 V

Vehicle Adapters Vehicle adapter, radio holster, and radio system carrying

bag

Logistical Parameters

**Programming** Menu selectable groups: user programmable from front

panel menu, PC programmer, and radio to radio cloning

**Repairs** Manufacturer **Decontamination** Not specified

**Durability/Ruggedness**Immiscibility: 20 m maritime version and 2 m urban

version

**Environmental Conditions** -22 °F to 140 °F

Humidity: 95 % noncondensing

Unit Cost Not specified

**Battery Cycle Life** >8 h with 10/10/80 cycle, 500 cycles **Rapid Charge Battery Cycle Life** >8 h with 10/10/80 cycle, 500 cycles

Maintenance Cost 1 yr warranty

Interface Capability NVG compatible, specialized headsets and audio devices

mate to standard military audio connector. RF interface to FM conventional, AM, Type 1, and UHF military satellite.

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYes

Manuals Available Yes, operator and service

applicable Regulations Not specified

Support Equipment Batteries, battery holder, vehicle adapter, radio holster,

radio system carrying bag, battery chargers, antennas, PC programmer, programmer/data cable, and cloning cable

Warranty 1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810E

Intrinsically Safe No

E-236 ID# 118

Name Racal Transceiver, Portable; MSHR (Miniature Secure Handheld Radio)

**ID# 119** 



Model Number(s) Miniature Secure Handheld Radio (MSHR)

**Technology** Portable, conventional

Manufacturer Racal Communications Inc.

5 Research Place

Rockville, Maryland 20850 301–948–4420 (Tel) 301–948–6371 (Fax) www.racalcomm.com

POC: Steve Nichols 301–208–7654 (Tel)

steve.nichols@racalcomm.com

**Secure Communication Capability** Yes, 3 levels embedded: U.S. Type 1 COMSEC,

commercial COMSEC, SBCF DES encryption

keyfill devices: CYZ 10 (DTD), KYK 13, KOI 18, KVL,

and Racal PCP

AvailabilityCommercially availableFrequency Range136 MHz to 174 MHz

**Number of Personnel Supported by** 

**System** 

Unlimited

Geographic Coverage 5 W FM LOS

Current User(s) U.S. Department of Justice and U.S. Department of

Defense

**Source** Racal Communications Inc.

**Operational Parameters** 

Number of Channels 100 programmable channels

**Transmitter Power Output Levels** 5 levels: 0.1 W, 0.5 W, 1 W, 2 W, and 5 W

Battery Options Rechargeable Lithium-Ion battery

**Battery Recharging Options** Single 6-way and 12 V dc vehicular battery charger

Physical Parameters

Size 7 in x 2.63 in x 0.88 in (with battery)

Weight 15.5 oz with battery and antenna

Power Requirements Not specified

E-237 ID# 119

External Power 120 V ac, 240 V ac, 12 V dc, via chargers

**Available Accessories** 

**Speaker-Microphones** Embedded speaker and microphone, and covert harness

Carrying Cases Carrying bag

**Battery Eliminators** No **Vehicle Adapters** Yes

**Logistical Parameters** 

**Programming** Menu driven keypad entry, PC software download, radio-

to-radio cloning, and keypad lockout

**Repairs** Manufacturer **Decontamination** Not specified

**Durability/Ruggedness** Water immersible to 2 m (20 m option available)

acceleration: 20 G for 11 ms

**Environmental Conditions** -22 °F to 140 °F

Humidity: 95 % noncondensing

Unit Cost Not specified

**Battery Cycle Life**6 h @ 5/5/90 cycle, 500 cycles **Rapid Charge Battery Cycle Life**6 h @ 5/5/90 cycle, 500 cycles

Maintenance Cost 1 yr warranty

Interface Capability Specialized headsets and audio devices wired through

Racal custom side connector. RF interface to FM conventional (CTCSS, DCS), Type 1 encryption, and

SBCF DES encryption.

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYes

Manuals Available Yes, operator and service

applicable Regulations Not specified

Support Equipment Conforming body antenna, covert surveillance harness with

wireless ear piece, carrying bag, PC programmer, data mode cable, cloning cable, key fill cable, test box, single,

6-way, and 12 V dc vehicular battery charger

Warranty 1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810E

**Intrinsically Safe** No

E-238 ID# 119

Name Racal Transceiver, Portable; 20 Meter MSHR

**ID# 120** 

We see the control of the control of

Model Number(s) 20 Meter Miniature Secure Handheld Radio

**Technology** Portable, conventional

Manufacturer Racal Communications Inc.

5 Research Place

Rockville, Maryland 20850 301–948–4420 (Tel) 301–948–6371 (Fax) www.racalcomm.com

POC: Steve Nichols 301–208–7654 (Tel)

steve.nichols@racalcomm.com

**Secure Communication Capability** Yes, 3 levels embedded: U.S. Type 1 COMSEC,

commercial COMSEC, SBCF DES encryption

keyfill devices: CYZ 10 (DTD), KYK 13, KOI 18, KVL,

and Racal PCP

Unlimited

**Availability** Available

Frequency Range 136 MHz to 174 MHz

Number of Personnel Supported by

System

Geographic Coverage 5 W FM LOS

Current User(s)

Navy SPECWAR, COCOM

Racal Communications Inc.

**Operational Parameters** 

Number of Channels 100 programmable channels

**Transmitter Power Output Levels** 5 levels: 0.1W, 0.5 W, 1 W, 2 W, and 5 W

Battery Options Lithium-Ion rechargeable battery

**Battery Recharging Options** Single, 6-way battery, and 12 V dc vehicular charger

Physical Parameters

Size 7.3 in x 2.6 in x 1.2 in (with battery)

Weight 24.5 oz with battery and antenna

Power Requirements Not specified

**External Power** 120 V ac, 240 V ac, 12 V dc via chargers

E-239 ID# 120

Available Accessories

**Speaker-Microphones** 1 m submersible speaker microphone and diver headset

Carrying Cases Carrying bag

**Battery Eliminators** No **Vehicle Adapters** Yes

**Logistical Parameters** 

**Programming** Menu driven keypad entry, PC software download, radio-

to-radio cloning, and keypad lockout

**Repairs** Manufacturer **Decontamination** Not specified

**Durability/Ruggedness** Submersible to 20 m

acceleration: 20 G for 11 ms

**Environmental Conditions** -22 °F to 140 °F

Humidity: 95 % noncondensing

Unit Cost Not specified

**Battery Cycle Life**6 h @ 5/5/90 cycle, 500 cycles **Rapid Charge Battery Cycle Life**6 h @ 5/5/90 cycle, 500 cycles

Maintenance Cost 1 yr warranty

Interface Capability Specialized headsets and audio devices wired through

Racal custom side connector. RF interface to FM conventional (CTCSS, DCS), Type 1 encryption, and

SBCF DES encryption.

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYes

Manuals Available Yes, operator and service

applicable Regulations Not specified

**Support Equipment** 20 m submersible diver headset, submersible miniature

headset, 1 m submersible speaker microphone, carrying bag, PC programmer, data mode cable, cloning cable, key fill cable, test box, single, 6-way, and 12 V dc vehicular

battery charger

Warranty 1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810E

**Intrinsically Safe** No

E-240 ID# 120

Name

**ID# 121** 

Racal Transceiver, Portable; Racal 25



Model Number(s) Racal 25

**Technology** Portable, conventional

Manufacturer Racal Communications Inc.

5 Research Place

Rockville, Maryland 20850 301–948–4420 (Tel) 301–948–6371 (Fax) www.racalcomm.com

POC: Steve Nichols 301–208–7654 (Tel)

steve.nichols@racalcomm.com

**Secure Communication Capability** Yes, embedded; SBCF DES, OFB DES for project 25

digital channels; keyfill devices: KVL (Motorola), and

Racal PC programmer

AvailabilityCommercially availableFrequency Range136 MHz to 174 MHz

**Number of Personnel Supported by** 

**System** 

Geographic Coverage 5 W FM LOS

**Current User(s)**U.S. Department of Justice, U.S. Department of Interior,

Unlimited

U.S. Navy, and U.S. Army

**Source** Racal Communications Inc.

**Operational Parameters** 

Number of Channels 16 quick select via rotary channel selector

48 quick select via toggle and rotary channel selector 256 selectable from the keypad, and 16 zones of 16

channels

**Transmitter Power Output Levels** 5 levels: 0.1 W, 0.5 W, 1 W, 2 W, and 5 W

(programmable)

Battery Options Lithium-Ion rechargeable battery, AA alkaline cassette

(requires 10 "AA" disposable batteries)

**Battery Recharging Options** An ac powered single battery charger, ac powered 6-way

battery charger, ac/dc powered 6-way battery charger.

Vehicular charger in development.

Physical Parameters

E-241 ID# 121

**Size** 7.8 in x 2.6 in x 1.05 in (with battery)

Weight 16.7 oz

Power Requirements Not specified

**External Power** No

Available Accessories

**Speaker-Microphones** Handheld speaker/microphone, surveillance harness, other

headsets and audio devices via 6 pin hirose connector

Carrying Cases Nylon duty case, leather duty case, and nylon tactical

carrying case

**Battery Eliminators** Yes

**Vehicle Adapters** In development, 40 W, 110 W

Logistical Parameters

**Programming** PC/cloning/front panel keyboard

**Repairs** Manufacturer **Decontamination** Not specified

**Durability/Ruggedness** Rugged metal housing. Submersible to 2 m.

Environmental Conditions -22 °F to 140 °F
Unit Cost Not specified

**Battery Cycle Life** >11 h @ 5/5/90 cycle, 500 cycles **Rapid Charge Battery Cycle Life** >11 h @ 5/5/90 cycle, 500 cycles

Maintenance Cost 1 yr warranty

Interface Capability Specialized headsets and audio devices mate to 6 pin hirose

connector on audio adapter. RF interface to FM conventional (CTCSS DCS), project 25 digital, DES encrypter, and simultaneous multi-mode capability.

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

**applicable Regulations** FCC type accepted and Canadian type approval

Support Equipment Carrying cases, hand held speaker/microphone, battery

chargers, alkaline cassette, narrowband high gain antenna,

PC programmer, and cloning cable

Warranty 1 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810E

Intrinsically Safe Pending

E-242 ID# 121

Name

**ID# 122** 

#### BK Base Station; EBU Series



Model Number(s) EBU-Series

**Technology** Conventional base station

**Manufacturer** Relm Communication

7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

**Secure Communication Capability** No

**Availability** Available

Frequency Range 400 MHz to 520 MHz

Number of Personnel Supported by Unlimited

**System** 

Geographic Coverage Not applicable
Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

Number of Channels2 channelsTransmitter Power Output Levels30 W to 125 WBattery OptionsNot applicable

**Battery Recharging Options** None

Physical Parameters

**Size** 19 in x 14 in x 17.3 in

Weight 50 lb to 70 lb

**Power Requirements** 12 V dc/24 V dc/48 V dc

External Power No

Available Accessories

Speaker-MicrophonesYesCarrying CasesNoBattery EliminatorsNo

E-243 ID# 122

Vehicle Adapters Not applicable

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**U.S. Forest Service vibrations test

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Not specified

Not applicable

Rapid Charge Battery Cycle Life

Maintenance Cost

Interface Capability

Not specified

Not specified

Special Requirements

Operator Skills RequiredExperiencedOperator Training RequirementsExperienced

Training Available

Yes

Manuals Available

Yes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810D, Mil Spec 810E, and

U.S. Forest Service vibrations test

**Intrinsically Safe** No

E-244 ID# 122

Name

**ID# 123** 

### BK Radio FM Transceiver; EMH 599 2X



Model Number(s) EMH 599 2X

TechnologyMobile, conventionalManufacturerRelm Communication<br/>7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

Unlimited

**Secure Communication Capability** No

**Availability** Available

Frequency Range 136 MHz to 174 MHz

Number of Personnel Supported by

System

Geographic Coverage Not specified Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

Number of Channels 210 channels continuously selected or programmable for

selection groups

**Transmitter Power Output Levels** 50 W can be turned down to 15 W for low power

applications

**Battery Options**Not applicable **Battery Recharging Options**Not applicable

**Physical Parameters** 

**Size** 6 in x 9.4 in x 2.1 in

Weight 5 lb

**Power Requirements** 13.6 V dc to 13.8 V dc

**External Power** Yes

Available Accessories

Speaker-MicrophonesNot applicableCarrying CasesNot applicable

E-245 ID# 123

Battery Eliminators Not applicable
Vehicle Adapters Not applicable

Logistical Parameters

Programming Dealer/User (authorized technician) programmable -

PC friendly

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Meets U.S. Forest Service vibrations and TIA/EIA-603

specifications

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$1.2K to \$1.4K

Battery Cycle Life

Not applicable

Not applicable

Maintenance Cost

Interface Capability

Not specified

Not specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

Support Equipment Mobile installation kit and choice of microphone with

hang-up box

Warranty 2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810D, Mil Spec 810E, and

U.S. Forest Service vibrations test

**Intrinsically Safe** No

E-246 ID# 123

Name

**ID# 124** 

### BK Synthesized FM Mobile Radio; EMV



Model Number(s) EMV 499 0A EMV 199 0A

**Technology**Mobile, conventional **Manufacturer**Relm Communication
7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

Unlimited

Secure Communication Capability Not specified

**Availability** Available

Frequency Range 403 MHz to 470 MHz

Number of Personnel Supported by

System

Geographic Coverage Not specified Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

Number of Channels 114 channels

**Transmitter Power Output Levels** EMV 499 0A: 10 W to 40 W and EMV 199 0A: 1 W to

4 W

**Battery Options**Not applicable **Battery Recharging Options**Not applicable

Physical Parameters

**Size** 6 in x 8 in x 2.1 in

Weight 8 lb

**Power Requirements** 13.6 V dc **External Power** No

Available Accessories

Speaker-MicrophonesNot applicableCarrying CasesNot applicable

E-247 ID# 124

Battery Eliminators Not applicable
Vehicle Adapters Not applicable

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Meets U.S. Forest Service vibration and EIA RS-316B

vibration and shock specifications

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$1.2K to \$1.4K

Battery Cycle Life

Not applicable

Not applicable

Maintenance Cost

Interface Capability

Not specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

Support Equipment Mobile installation kit and choice of microphone with

hang-up box

Warranty 2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810D, Mil Spec 810E, and

U.S. Forest Service vibrations test

**Intrinsically Safe** No

E-248 ID# 124

Name BK Synthesized FM E Series DES EPH 599,

EPU 499 and EPV 499 Models ID# 125

Model Number(s) EPH

**Technology** Portable, conventional **Manufacturer** Relm Communication
7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

**Secure Communication Capability** DES encryption keys: 3 encryption codes in memory

**Availability** Available

Frequency Range 148 MHz to 174 MHz, 403 MHz to 457 MHz, and

450 MHz to 512 MHz

Unlimited

Number of Personnel Supported by

**System** 

Geographic Coverage Not specified Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

Number of Channels 14 channels/210 channels

**Transmitter Power Output Levels** Hi: 5 W; low: 4 W

**Battery Options** NiCad hi-power battery, AA battery cells, and NiMH

battery

**Battery Recharging Options** 121 V ac dual rate desktop charger, 121 V ac and 242 V ac

Charge Smart NiMH desktop charger

Physical Parameters

 Size
 2.6 in x 1.5 in x 6.6 in

 Weight
 20 oz (standard)

**Power Requirements** 10 V dc **External Power** No

Available Accessories

**Speaker-Microphones** Speaker microphone with swivel spring clip, hi/lo volume

switch, coiled cord, and earphone jack

E-249 ID# 125

Carrying Cases Full leather cover that fits deluxe leather holster with belt

loop/swivel

Battery Eliminators Not specified

Vehicle Adapters No

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**U.S. Forest Service vibration, EIA RS–316B vibration, and

shock specifications

Environmental Conditions -22 °F to 140 °F
Unit Cost \$2.2K to \$2.3K
Battery Cycle Life Not specified

Rapid Charge Battery Cycle Life 121 V ac dual rate desktop charger (fast-charge and trickle-

charge). Charges all NiCad battery packs in 1 h or less.

Maintenance Cost Not specified Interface Capability Not specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations

Not specified

**Support Equipment** Batteries and power supplies, microphones and speakers,

charging accessories, carrying accessories, antennas, speaker microphone, and signaling and channel options

(factory installs)

**Warranty** 2 yr (can be extended up to 5 yr)

Mil Spec/Mil-Std Ratings Meets Mil Spec 810D, Mil Spec 810E, and

U.S. Forest Service vibrations test

Intrinsically Safe Depends on battery option

E-250 ID# 125

Name BK Synthesized FM Portable Radio; E Series, EPH 51 and 52 Models

**ID# 126** 



Model Number(s) EPH

**Technology**Portable, conventional **Manufacturer**Relm Communication
7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

Unlimited

**Secure Communication Capability** No

**Availability** Available

Frequency Range 148 MHz to 174 MHz

Number of Personnel Supported by

System

Geographic Coverage Not specified
Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

**Number of Channels** 14 channels/210 channels

**Transmitter Power Output Levels** 5/2 W RF power

**Battery Options** NiCad hi-power battery, AA battery cells, and NiMH

battery

**Battery Recharging Options** 121 V ac dual rate desktop charger, 121 V ac and 242 V ac

Charge Smart NiMH desktop charger

Physical Parameters

**Size** 2.6 in x 1.5 in x 6.6 in

Weight 20 oz
Power Requirements 10 V dc
External Power No

Available Accessories

**Speaker-Microphones** Speaker microphone with swivel spring clip, hi/lo volume

switch, coiled cord, and earphone jack

E-251 ID# 126

Carrying Cases Full leather cover that fits deluxe leather holster with belt

loop/swivel

Battery Eliminators Not specified

Vehicle Adapters No

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**U.S. Forest Service vibration and EIA RS-316B vibration

and shock specifications

Environmental Conditions -22 °F to 140 °F
Unit Cost \$675 to \$1.2K
Battery Cycle Life Not specified

Rapid Charge Battery Cycle Life 121 V ac dual rate desktop charger (fast-charge/trickle-

charge). Charges all NiCad battery packs in 1 h or less.

Maintenance CostNot specifiedInterface CapabilityNot specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

**Support Equipment** Batteries and power supplies, microphones and speakers,

charging accessories, carrying accessories, antennas, speaker microphone, and signaling and channel options

(factory installs)

Warranty 2 yr (can be extended up to 5 yr)

Mil Spec/Mil-Std Ratings Meets Mil Spec 810D, Mil Spec 810E, and

U.S. Forest Service vibrations test

Intrinsically Safe Depends on battery option

E-252 ID# 126

Name BK Synthesized FM Portable Radio; E Series, EPI 510 Models

**ID# 127** 



Model Number(s) EPI

**Technology**Portable, conventional **Manufacturer**Relm Communication
7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

Unlimited

**Secure Communication Capability** No

**Availability** Available

Frequency Range 136 MHz to 160 MHz

Number of Personnel Supported by

System

Geographic Coverage Not specified
Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

Number of Channels

Transmitter Power Output Levels

Hi: 5 W; low: 2 W

**Battery Options** NiCad hi-power battery, AA battery cells, and NiMH

battery

**Battery Recharging Options** 121 V ac dual rate desktop charger, 121 V ac and 242 V ac

Charge Smart NiMH desktop charger

Physical Parameters

 Size
 2.6 in x 1.5 in x 6.6 in

 Weight
 20 oz (standard)

**Power Requirements** 10 V dc **External Power** No

Available Accessories

**Speaker-Microphones** Speaker microphone with swivel spring clip, hi/lo volume

switch, coiled cord, and earphone jack

E-253 ID# 127

Carrying Cases Full leather cover that fits deluxe leather holster with belt

loop/swivel

Battery Eliminators Not specified

Vehicle Adapters No

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**U.S. Forest Service vibration, EIA RS–316B vibration, and

shock specifications

Environmental Conditions -22 °F to 140 °F
Unit Cost \$800 to \$1.1K
Battery Cycle Life Not specified

Rapid Charge Battery Cycle Life 121 V ac dual rate desktop charger (fast-charge/trickle-

charge). Charges all NiCad battery packs in 1 h or less.

Maintenance CostNot specifiedInterface CapabilityNot specified

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

**Support Equipment** Batteries/power supplies, microphones and speakers,

charging accessories, carrying accessories, antennas, speaker microphone, and signaling/channel options

(factory installs)

Warranty 2 yr (can be extended up to 5 yr)

Mil Spec/Mil-Std Ratings Meets Mil Spec 810D, Mil Spec 810E, and

U.S. Forest Service vibrations test

Intrinsically Safe Depends on battery option

E-254 ID# 127

Name
BK Synthesized FM Portable Radio; E Series, EPU
& EPV 414 and 499 Models

**ID# 128** 



Model Number(s) EPV

**Technology** Portable, conventional **Manufacturer** Relm Communication
7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

Unlimited

**Secure Communication Capability** No

**Availability** Available

Frequency Range 403 MHz to 457 MHz (EPV) 450 MHz to 512 MHz (EPU)

**Number of Personnel Supported by** 

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

**Source** Relm

**Operational Parameters** 

**Number of Channels** 14 channels/210 channels

**Transmitter Power Output Levels** 4 W

**Battery Options** NiCad hi-power battery, AA battery cells, and NiMH

battery

**Battery Recharging Options** 121 V ac dual rate desktop charger, 121 V ac/242 V ac

Charge Smart NiMH desktop charger

**Physical Parameters** 

**Size** 2.6 in x 1.5 in x 6.6 in

Weight 20 oz
Power Requirements 10 V dc
External Power No

E-255 ID# 128

Available Accessories

**Speaker-Microphones** Speaker microphone with swivel spring clip, hi/lo volume

switch, coiled cord, and earphone jack

Carrying Cases Full leather cover that fits deluxe leather holster with belt

loop and swivel

Battery Eliminators Not specified

**Vehicle Adapters** No

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**U.S. Forest Service vibrations test

Environmental Conditions

-22 °F to 140 °F

Unit Cost

\$910 to \$1.3K

Battery Cycle Life

Not specified

Rapid Charge Battery Cycle Life 121 V ac dual rate desktop charger (fast-charge and trickle-

charge). Charges all NiCad battery packs in 1 h or less.

Maintenance Cost Not specified Interface Capability Not specified

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

**Support Equipment** Batteries and power supplies, microphones and speakers,

charging accessories, carrying accessories, antennas, speaker microphone, and signaling/channel options

(factory installs)

**Warranty** 2 yr (can be extended up to 5 yr)

Mil Spec/Mil-Std Ratings Meets Mil Spec 810D, Mil Spec 810E, and

U.S. Forest Service vibrations test

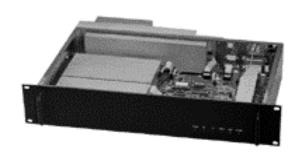
Intrinsically Safe No.

E-256 ID# 128

Name

ID# 129

### BK Repeater; ERU Series



Model Number(s) ERU-Series

**Technology Manufacturer**Relm Communication 7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

Unlimited

**Secure Communication Capability** No

**Availability** Available

Frequency Range 400 MHz to 520 MHz

Number of Personnel Supported by

**System** 

Geographic Coverage Not applicable
Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

Number of Channels 255 channels

**Transmitter Power Output Levels** Hi: 50 W; low: 35 W RF power

Battery Options Not applicable

**Battery Recharging Options** None

**Physical Parameters** 

**Size** 19 in x 3.5 in x 14.2 in

Weight 19.8 lb
Power Requirements 13.8 V dc
External Power No

Available Accessories

Speaker-MicrophonesYesCarrying CasesNoBattery EliminatorsNo

E-257 ID# 129

Vehicle Adapters Not applicable

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**U.S. Forest Service vibrations test

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Not specified

Not applicable

Rapid Charge Battery Cycle Life

Maintenance Cost

Not specified

Not specified

**Interface Capability** No

**Special Requirements** 

Operator Skills RequiredExperiencedOperator Training RequirementsExperienced

Training Available Yes
Manuals Available Yes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810D, Mil Spec 810E, and

U.S. Forest Service vibrations test

Intrinsically Safe
No

E-258 ID# 129

Name BK Radio FM Transceiver, Portable; G Series, GPH

Models

**ID# 130** 

Model Number(s) GPH21, GPH51

**Technology Manufacturer**Portable, conventional

Relm Communication
7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

**Secure Communication Capability** No

**Availability** Available

Frequency Range 148 MHz to 174 MHz

Number of Personnel Supported by Unlimited

**System** 

Geographic Coverage Not specified Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

Number of Channels 16 channels

**Transmitter Power Output Levels** 5 W

**Battery Options** NiCad hi-power battery, AA battery cells, and NiMH

battery

**Battery Recharging Options** 121 V ac dual rate desktop charger, 121 V ac/242 V ac

Charge Smart NiMH desktop charger

Physical Parameters

Size 2.55 in x 15 in x 6.6 in (with standard battery)

**Weight** 20.8 oz (with standard battery)

Power Requirements 10 V dc
External Power No

Available Accessories

**Speaker-Microphones** Speaker microphone with swivel spring clip, hi/lo volume,

coiled cord, and earphone jack

Carrying Cases

Leather case with belt loop (optional viewing window)

E-259 ID# 130

Battery Eliminators Not specified Vehicle Adapters Not specified

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °FUnit Cost\$750 to \$1.2KBattery Cycle LifeNot specified

Rapid Charge Battery Cycle Life 121 V ac dual rate desktop charger (fast-charge/trickle-

charge). Charges all NiCad battery packs in 1 h or less.

Maintenance CostNot specifiedInterface CapabilityNot specified

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

**Support Equipment** Batteries/power supplies, microphones and speakers,

charging accessories, carrying accessories, antennas, speaker microphone, and signaling/channel options

(factory installs)

Warranty 2 yr (can be extended up to 5 yr)

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, Mil Spec 810E,

and U.S. Forest Service vibrations test

Intrinsically Safe Depends on battery option

E-260 ID# 130

Name

**ID# 131** 

### BK Radio Airborne Transceiver; KFM 985



Model Number(s) KFM 985

**Technology**Mobile, conventional **Manufacturer**Relm Communication
7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

**Secure Communication Capability** No

**Availability** Available

Frequency Range Downband VHF: 136 MHz to 160 MHz

VHF: 148 MHz to 174 MHz UHF: 450 MHz to 512 MHz

Downband UHF: 403 MHz to 457 MHz

**Number of Personnel Supported by** 

**System** 

Unlimited

Geographic Coverage Not specified Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

Number of Channels Up to 210 channels

Transmitter Power Output LevelsVHF: 4 W<br/>UHF: 5 WBattery OptionsNot applicable

Battery Recharging Options Not applicable

Physical Parameters

**Size** 3 in x 5.8 in x 5.3 in

Weight 2 lb
Power Requirements 14 V dc

External Power Not applicable

Available Accessories

**Speaker-Microphones** Not applicable

E-261 ID# 131

Carrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**U.S. Forest Service vibrations test

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Not specified

Not applicable

Rapid Charge Battery Cycle Life

Maintenance Cost

Interface Capability

Not specified

Not specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentNot specified

Warranty 2 yr

Mil Spec/Mil-Std Ratings

U.S. Forest Service vibrations test

Intrinsically Safe No

E-262 ID# 131

Name Relm Mobile Radio; 256NB

**ID# 132** 

Picture Not Available

Model Number(s) 256NB

TechnologyMobile, conventionalManufacturerRelm Communication<br/>7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

Unlimited

**Secure Communication Capability** No

**Availability** Available

Frequency Range 150 MHz to 162 MHz

Number of Personnel Supported by

**System** 

Geographic Coverage Not specified Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

Number of Channels1 channel/16 channelsTransmitter Power Output Levels25 W minimumBattery OptionsNot applicableBattery Recharging OptionsNot applicable

Physical Parameters

**Size** 2.75 in x 6.5 in x 10.75 in

Weight 4.4 lb
Power Requirements 13.6 V dc
External Power Not applicable

Available Accessories

Speaker-MicrophonesNot applicableCarrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

E-263 ID# 132

## **Logistical Parameters**

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified Not specified **Durability/Ruggedness** -22 °F to 140 °F **Environmental Conditions Unit Cost** Not specified **Battery Cycle Life** Not applicable **Rapid Charge Battery Cycle Life** Not applicable Not specified **Maintenance Cost Interface Capability** Not specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

**Support Equipment** Mobile hand microphone, 5 A dc power cord, telephone

handset with hookswitch, mounting bracket, DTMF encoder microphone, alternator filter, desk microphone,

and external speaker

Warranty 1 yr
Mil Spec/Mil-Std Ratings No
Intrinsically Safe No

E-264 ID# 132

Name Relm Portable Radios; MPU08 (UHF)

**ID# 133** 



Model Number(s) MPU08 (UHF)

**Technology** Portable

Manufacturer Relm Communication

7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

Unlimited

**Secure Communication Capability** No

**Availability** Available

Frequency Range 450 MHz to 480 MHz

Number of Personnel Supported by

System

Geographic Coverage Not specified
Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

Number of Channels 8 channels

**Transmitter Power Output Levels** 4 W

**Battery Options** 700 mA battery 1000 mA battery

Battery Recharging Options Desk (rapid rate), 6 unit multi-charger, and wall charger

**Physical Parameters** 

**Size** 6.4 in x 2.5 in x 1.4 in

Weight 15.5 oz

Power Requirements Not specified

**External Power** No

Available Accessories

**Speaker-Microphones** Speaker microphone

Carrying Cases Carrying case

E-265 ID# 133

Battery Eliminators Not specified

Vehicle Adapters No

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNor specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$458

Battery Cycle Life Not specified

Rapid Charge Battery Cycle Life Rapid rate desk charger

Maintenance Cost Not specified

Interface Capability Not specified

Special Requirements

Operator Skills RequiredMinimalOperator Training RequirementsMinimalTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

Support Equipment Battery charger, battery pack, speaker microphone, carry

case, rubber antenna, 12.5 channel space conversion kit for MPV and MPU, cloning cable, and PC programming kit

Warranty Individual warranty provided with each product

Mil Spec/Mil-Std Ratings No
Intrinsically Safe No

E-266 ID# 133

Name Relm Portable Radios; MPU32 (UHF)

**ID# 134** 



Model Number(s) MPU 32 (UHF)

**Technology** Portable, conventional **Manufacturer** Relm Communication
7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

Unlimited

**Secure Communication Capability** No

**Availability** Available

Frequency Range 403 MHz to 430 MHz and 450 MHz to 480 MHz

**Number of Personnel Supported by** 

System

Geographic Coverage Not specified
Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

**Number of Channels** 32 channels, option available

**Transmitter Power Output Levels** 4 W

**Battery Options** 700 mA battery 1000 mA battery

Battery Recharging Options Desk (rapid rate), 6 unit multi-charger, and wall charger

**Physical Parameters** 

**Size** 6.4 in x 2.5 in x 1.4 in

Weight 15.5 oz
Power Requirements 10.8 V dc
External Power No

Available Accessories

**Speaker-Microphones** Speaker microphone

Carrying Cases Carrying case

E-267 ID# 134

Battery Eliminators Not specified

Vehicle Adapters No

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$473

Battery Cycle Life Not specified

Rapid Charge Battery Cycle Life Rapid rate desk charger

Maintenance Cost Not specified

Interface Capability Not specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

Support Equipment Battery charger, battery pack, speaker microphone, carry

case, rubber antenna, 12.5 channel space conversion kit for MPV and MPU, cloning cable, and PC programming kit

Warranty Individual warranty provided with each product

Mil Spec/Mil-Std Ratings No
Intrinsically Safe No

E-268 ID# 134

Name Relm Portable Radios; MPV32 (VHF)

**ID# 135** 



Model Number(s) MPV 32 (VHF)

**Technology** Portable, conventional **Manufacturer** Relm Communication
7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

**Secure Communication Capability** No

**Availability** Available

Frequency Range 136 MHz to 174 MHz

Number of Personnel Supported by Unlimited

System

Geographic Coverage Not specified Current User(s) Not specified

Source Relm

**Operational Parameters** 

**Number of Channels** 32 channels, option available

**Transmitter Power Output Levels** 5 W

**Battery Options** 700 mA battery 1000 mA battery

Battery Recharging Options Desk (rapid rate), 6 unit multi-charger, and wall charger

Physical Parameters

**Size** 6.4 in x 2.5 in x 1.4 in

Weight 15.5 oz
Power Requirements 10.8 V dc
External Power No

<u>Available Accessories</u>

**Speaker-Microphones** Speaker microphone

Carrying Cases Carrying case

E-269 ID# 135

Battery Eliminators Not specified

Vehicle Adapters No

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessStandard useEnvironmental Conditions-22 °F to 140 °F

Unit Cost \$473

Battery Cycle Life Not specified

Rapid Charge Battery Cycle Life Rapid rate desk charger

Maintenance Cost Not specified

Interface Capability Not specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

Support Equipment Battery charger, battery pack, speaker microphone, carry

case, rubber antenna, 12.5 channel space conversion kit for MPV and MPU, cloning cable, and PC programming kit

Warranty Individual warranty provided with each product

Mil Spec/Mil-Std Ratings No Intrinsically Safe No

E-270 ID# 135

Name Relm Mobile Radios; SMV2516

**ID# 136** 



Model Number(s) SMV2516 UHF

**Technology**Mobile, conventional **Manufacturer**Relm Communication
7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

**Secure Communication Capability** No

**Availability** Available

Frequency Range 450 MHz to 482 MHz

**Number of Personnel Supported by** 

System

Geographic Coverage Not specified Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

**Number of Channels** Either 16 channel or 99 channel formats with scan

capability

Unlimited

**Transmitter Power Output Levels** 25 W minimum at 7 MHz

12.5 W minimum at 10 MHz

Battery Options Not applicable
Battery Recharging Options Not applicable

Physical Parameters

**Size** 1.5 in x 5.8 in x 7 in

Weight 2.4 lb
Power Requirements 13.6 V dc
External Power Not applicable

Available Accessories

**Speaker-Microphones** Not applicable

E-271 ID# 136

Carrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness** Specially designed metal covers and a die-cast metal frame

offer unparalleled structural durability and protection

**Environmental Conditions** -22 °F to 140 °F

Unit Cost \$550

Battery Cycle LifeNot applicableRapid Charge Battery Cycle LifeNot applicableMaintenance CostNot specifiedInterface CapabilityNot specified

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

**applicable Regulations** FCC Type Acceptance

**Support Equipment** DTMF Decoder, external speaker 12 A dc power cord,

mobile hand microphone, programmer desk microphone, DTMF Touch-Tone\* Microphone, and two-tone sequential

decoder

Warranty 1 yr
Mil Spec/Mil-Std Ratings No
Intrinsically Safe No

E-272 ID# 136

Name Relm Mobile Radios; SMV4016

**ID# 137** 



Model Number(s) SMV4016 VHF

TechnologyMobile, conventionalManufacturerRelm Communication<br/>7100 Technology Drive

West Melbourne, Florida 32904

321–984–1414 (Tel) 321–984–0434 (Fax)

POC: Mary Stone

**Secure Communication Capability** No

**Availability** Available

Frequency Range 150 MHz to 174 MHz

Number of Personnel Supported by Unlimited

System

Geographic Coverage Not specified Current User(s) Not specified

**Source** Relm

**Operational Parameters** 

**Number of Channels** Either 16 channel or 99 channel formats with scan

capability

**Transmitter Power Output Levels** 40 W minimum at 7 MHz

20 W minimum at 10 MHz

**Battery Options**Not applicable **Battery Recharging Options**Not applicable

Physical Parameters

**Size** 1.5 in x 5.8 in x 7 in

Weight 2.4 lb
Power Requirements 13.6 V dc
External Power Not applicable

Available Accessories

Speaker-MicrophonesNot applicableCarrying CasesNot applicable

E-273 ID# 137

Battery Eliminators Not applicable
Vehicle Adapters Not applicable

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness** Specially designed metal covers and a die-cast metal frame

offer unparalleled structural durability and protection

**Environmental Conditions** -22 °F to 140 °F

Unit Cost \$548

Battery Cycle LifeNot applicableRapid Charge Battery Cycle LifeNot applicableMaintenance CostNot specifiedInterface CapabilityNot specified

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

**applicable Regulations** FCC Type Acceptance

Support Equipment DTMF Decoder, external speaker 12 A dc power cord,

mobile hand microphone, programmer desk microphone, DTMF Touch-Tone\* Microphone, and two-tone sequential

decoder

Warranty 1 yr
Mil Spec/Mil-Std Ratings No
Intrinsically Safe No

E-274 ID# 137

Name

**ID# 138** 

#### Maxon VHF/UHF RF Link Module; SD-125



Model Number(s) SD-125

Technology Link (repeater), conventional RF Link Module

Manufacturer Topaz 3, LLC

10828 NW Air World Drive Kansas City, Missouri 64153 816–891–6320 ext. 699 (Tel) 816–891–8815 (Fax)

POC: Liz Hawkins Maxon America

Not applicable

800–821–7848, ext 611 (Tel) liz.hawkins@topaz3.com

**Secure Communication Capability** No

**Availability** Available

Frequency Range 148 MHz to 174 MHz and 440 MHz to 470 MHz

**Number of Personnel Supported by** 

System

Geographic Coverage

Current User(s)

Not specified

Not specified

Topaz 3, LLC

**Operational Parameters** 

Number of Channels16 channelsTransmitter Power Output Levels1 W to 5 WBattery OptionsNot specifiedBattery Recharging OptionsNot specified

Physical Parameters

**Size** 4.6 in x 2.4 in x 1.2 in

Weight 8 oz

**Power Requirements** 9 V dc to 18 V dc

External Power No

# Available Accessories

E-275 ID# 138

Speaker-MicrophonesNot applicableCarrying CasesNot specifiedBattery EliminatorsNot specifiedVehicle AdaptersNot specified

Logistical Parameters

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified Standard use **Durability/Ruggedness** -22 °F to 140 °F **Environmental Conditions Unit Cost** Not specified 5/5/90 cycle **Battery Cycle Life Rapid Charge Battery Cycle Life** Not specified Not specified **Maintenance Cost Interface Capability** Not specified

**Special Requirements** 

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable RegulationsNot specifiedSupport EquipmentAvailableWarranty2 yrMil Spec/Mil-Std RatingsNoIntrinsically SafeNo

E-276 ID# 138

Name Maxon Scanning Transceiver; SM-2000 Series

**ID# 139** 



Model Number(s) SM-2150 VHF

SM-2450 UHF

**Technology** Mobile, conventional

Manufacturer Topaz 3, LLC

10828 NW Air World Drive Kansas City, Missouri 64153 816–891–6320 ext. 699 (Tel) 816–891–8815 (Fax)

POC: Liz Hawkins Maxon America

800–821–7848, ext 611 (Tel) liz.hawkins@topaz3.com

**Secure Communication Capability** No

**Availability** Available

Frequency Range

VHF: 148 MHz to 174 MHz

UHF: 440 MHz to 470 MHz

Unlimited

**Number of Personnel Supported by** 

System

Geographic Coverage

Current User(s)

Not specified

Not specified

Topaz 3, LLC

**Operational Parameters** 

Number of Channels

UHF: 4 channels (programmable in 5 kHz steps)

VHF: 4 channels (programmable in 6.25 kHz steps)

**Transmitter Power Output Levels** 1 W to 3 W, low

1 W to 25 W, high Not applicable Not applicable

Physical Parameters

**Battery Recharging Options** 

**Battery Options** 

**Size** 2 in x 7 in x 6.3 in

Weight 3.4 lb (with microphone)

Power Requirements 13.8 V dc negative ground

External Power Not applicable

E-277 ID# 139

Available Accessories

Speaker-MicrophonesNot applicableCarrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

Logistical Parameters

Programming Dealer/User (authorized technician), programmable -

PC friendly

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Case material is die-cast aluminum

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Not specified

Not applicable

Rapid Charge Battery Cycle Life

Maintenance Cost

Interface Capability

Not specified

Not specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations FCC Certified and IC Certification

Support Equipment Heavy duty remote speaker, heavy duty mobile

microphone, base station microphone, power supply (110 V ac/220V ac, 10 A, 50 % duty), and power

supply cover

Warranty 2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe** No

E-278 ID# 139

Name Maxon Scanning Transceiver; SM-4000 Series

**ID# 140** 



Model Number(s) SM-4150 VHF

SM-4450 UHF

**Technology** Mobile, conventional

Manufacturer Topaz 3, LLC

10828 NW Air World Drive Kansas City, Missouri 64153 816–891–6320 ext. 699 (Tel)

816–891–8815 (Fax)

POC: Liz Hawkins Maxon America

800–821–7848, ext 611 (Tel) liz.hawkins@topaz3.com

**Secure Communication Capability** No

**Availability** Available

Frequency Range VHF: 136 MHz to 150 MHz (L)

150 MHz to 165 MHz (M) 160 MHz to 174 MHz (H) UHF: 450 MHz to 470 MHz

Number of Personnel Supported by Unlimited

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Topaz 3, LLC

**Operational Parameters** 

Number of Channels16 channel capabilityTransmitter Power Output Levels40 W (adjustable)Battery OptionsNot applicableBattery Recharging OptionsNot applicable

Physical Parameters

**Size** 2 in x 6 in x 8.3 in

Weight 4.2 lb (with microphone)

Power Requirements 13.8 V dc negative ground

E-279 ID# 140

External Power Not applicable

Available Accessories

Speaker-MicrophonesNot applicableCarrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot specified

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness** Case material is die-cast aluminum

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Not specified

Not applicable

Rapid Charge Battery Cycle Life

Maintenance Cost

Interface Capability

Not specified

Not specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

**Applicable Regulations** FCC Compliance, FCC Identifier, and IC Certification

Support Equipment Heavy duty remote speaker, heavy duty mobile

microphone, base station microphone, and power supply

(110 V ac, 10 A, 50 % duty)

Warranty 2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe** No

E-280 ID# 140

Name

**ID# 141** 

#### Maxon VHF/UHF Transceiver, Portable; SP-120



Model Number(s) SP-120

**Technology** Portable, conventional

Manufacturer Topaz 3, LLC

10828 NW Air World Drive Kansas City, Missouri 64153 816–891–6320 ext. 699 (Tel) 816–891–8815 (Fax)

POC: Liz Hawkins Maxon America

800–821–7848, ext 611 (Tel) liz.hawkins@topaz3.com

Secure Communication Capability Yes; after market (Midian Electronics)

VPU II Inversion Voice Scrambler TVS –2 Rolling Code Scrambler

**Availability** Available

Frequency Range

VHF: 148 MHz to 174 MHz

UHF: 440 MHz to 470 MHz

Number of Personnel Supported by

System

Geographic Coverage

Current User(s)

Not specified

Not specified

Topaz 3, LLC

**Operational Parameters** 

Number of Channels 4 channels

**Transmitter Power Output Levels** 2 W

**Battery Options** NiCad 7.5V dc (with 700 mAh battery or with 1200 mAh

battery)

Unlimited

**Battery Recharging Options** 6-unit gang charger (regular and rapid), dual slot/dual rate

desktop charger, and pedestal charger

<u>Physical Parameters</u>

Size 5.6 in x 2.3 in x 1.7 in (with battery)

Weight 15 oz (with battery)

E-281 ID# 141

Power Requirements NiCad 7.5 V dc

External Power No

Available Accessories

Speaker-Microphones Deluxe speaker/microphone, ear speaker microphone, voice

operated mini-VOX control and headset, and 2 wire palm

microphone

Carrying Cases Leather case with swivel and nylon case

Battery Eliminators Not specified Vehicle Adapters Not specified

Logistical Parameters

Programming Dealer/User (authorized technician) programmable -

PC friendly

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Manufactured with a die-cast aluminum frame and tough-

tested polycarbonate cabinet. Can work in all

environments.

Environmental Conditions -22 °F to 140 °F
Unit Cost Not specified

**Battery Cycle Life** > 8 h

Rapid Charge Battery Cycle Life 6-unit gang rapid charger, dual slot/dual rate "smart"

desktop charger

Maintenance Cost Not specified
Interface Capability Not specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

**applicable Regulations** FCC Certified for use in USA and its possessions, and IC

approved for sale in Canada

**Support Equipment** Battery pack, VHF antenna, UHF antenna, battery chargers,

speaker/microphone, palm microphone, coil-cord earphone,

ear speaker microphone, leather case, and nylon case

Warranty 2 yr
Mil Spec/Mil-Std Ratings No
Intrinsically Safe No

E-282 ID# 141

Name

**ID# 142** 

Maxon VHF/UHF Transceiver, Portable;

SP-130/SP-140



Model Number(s) SP-130/SP-140

**Technology** Portable, conventional

Manufacturer Topaz 3, LLC

10828 NW Air World Drive Kansas City, Missouri 64153 816–891–6320 ext. 699 (Tel)

816-891-8815 (Fax)

POC: Liz Hawkins Maxon America

800–821–7848, ext 611 (Tel) liz.hawkins@topaz3.com

**Secure Communication Capability** Yes; after market (Midian Electronics)

VPU II Inversion Voice Scrambler TVS-2 Rolling Code Scrambler

**Availability** Available

Frequency Range

VHF: 148 MHz to 174 MHz

UHF: 440 MHz to 470 MHz

Number of Personnel Supported by Unlimited

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Topaz 3, LLC

**Operational Parameters** 

**Number of Channels** 4 channels/16 channels programmable

**Transmitter Power Output Levels** Hi: 5 W; low: 1 W programmable per channel

**Battery Options** NiCad 7.5V dc

**Battery Recharging Options** 4–station conditioning charger (110 V/220 V), 6–unit gang

charger (regular and rapid), dual slot/dual rate "smart"

charger, and pedestal charger

Physical Parameters

Size 5.6 in x 2.3 in x 1.7 in (with battery)

Weight 16.4 oz (with battery)

E-283 ID# 142

**Power Requirements** 7.5 V dc **External Power** No

Available Accessories

**Speaker-Microphones** Deluxe speaker/microphone with angled connector,

2 wire palm microphone, voice operated mini VOX control

and headset, and ear speaker microphone

Carrying Cases Leather case with swivel and nylon case

Battery Eliminators Not specified Vehicle Adapters Not specified

Logistical Parameters

Programming Dealer/User (authorized technician) programmable -

PC friendly

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Manufactured with a die-cast aluminum frame and tough-

tested polycarbonate cabinet. Can adapt to tough work

conditions like dust, vibration, and humidity.

Environmental Conditions -22 °F to 140 °F
Unit Cost Not specified

**Battery Cycle Life** > 8 h

Rapid Charge Battery Cycle Life 6-unit gang rapid charger, dual slot/dual rate "smart"

desktop charger

Maintenance CostNot specifiedInterface CapabilityNot specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

**applicable Regulations** FCC Certified for use in USA and its possessions, and IC

approved for sale in Canada

**Support Equipment** Battery pack, VHF antenna, UHF antenna, battery chargers,

speaker and microphone, palm microphone, coil-cord earphone, ear speaker microphone, leather case, and nylon

case

Warranty 2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

Intrinsically Safe SP140 Model only

E-284 ID# 142

Name Maxon VHF/UHF Transceiver, Portable; SP-200

**ID# 143** 

Model Number(s) SP-200

**Technology** Portable, conventional

Manufacturer Topaz 3, LLC

10828 NW Air World Drive Kansas City, Missouri 64153 816–891–6320 ext. 699 (Tel)

816-891-8815 (Fax)

POC: Liz Hawkins Maxon America

800–821–7848, ext 611 (Tel) liz.hawkins@topaz3.com

**Secure Communication Capability** No

**Availability** Available

Frequency Range

UHF: 403 MHz to 430 MHz

VHF: 136 MHz to 174 MHz

800 MHz: 806 MHz to 824 MHz and 851 MHz to

869 MHz Unlimited

**Number of Personnel Supported by** 

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Topaz 3, LLC

**Operational Parameters** 

**Number of Channels** 199 channel capability, up to 13 scan groups of up to

16 channels each

**Transmitter Power Output Levels** 1 W or 5 W  $\pm$  10 %

**Battery Options** 1350 mAh Ni-MH battery

Battery Recharging Options Rapid rate charger

Physical Parameters

 Size
 4.25 in x 2.31 in x 1.5 in

 Weight
 7.65 oz (with battery)

**Power Requirements** 7.5 V dc **External Power** No

E-285 ID# 143

**Available Accessories** 

**Speaker-Microphones** Ear bud speaker with in-line P-T-T and microphone, lapel

speaker/microphone with ear jack, and ear speaker with

cord

Carrying CasesNot specifiedBattery EliminatorsNot specifiedVehicle AdaptersNot specified

**Logistical Parameters** 

Programming Dealer/User (authorized technician) programmable -

PC friendly

**Repairs** Dealer

**Decontamination** Not specified

Durability/Ruggedness Industrial use, die cast aluminum chassis, and

polycarbonate case

Rapid rate charger

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Not specified

8 h at 5/5/90 cycle

Maintenance CostNot specifiedInterface CapabilityNot specified

**Special Requirements** 

Rapid Charge Battery Cycle Life

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

**applicable Regulations** FCC Certified for use in USA and its possessions, and IC

approved for sale in Canada

**Support Equipment** 1350 mAh Ni-MH battery pack, UHF antenna, VHF

antenna, rapid rate charger, speaker microphone, and cord

Warranty 2 yr
Mil Spec/Mil-Std Ratings No
Intrinsically Safe No

E-286 ID# 143

Name Maxon VHF/UHF Transceiver, Portable; SP-300

**ID# 144** 

AA

Model Number(s) SP-300

**Technology** Portable, conventional

Manufacturer Topaz 3, LLC

10828 NW Air World Drive Kansas City, Missouri 64153 816–891–6320 ext. 699 (Tel)

816-891-8815 (Fax)

POC: Liz Hawkins Maxon America

800–821–7848, ext 611 (Tel) liz.hawkins@topaz3.com

**Secure Communication Capability** No

**Availability** Available

Frequency Range

UHF: 403 MHz to 430 MHz
VHF: 136 MHz to 174 MHz

 $800\,\mathrm{MHz}$ :  $806\,\mathrm{MHz}$  to  $824\,\mathrm{MHz}$  and  $851\,\mathrm{MHz}$  to

869 MHz Unlimited

**Number of Personnel Supported by** 

**System** 

Geographic Coverage

Current User(s)

Not specified

Not specified

Topaz 3, LLC

**Operational Parameters** 

Number of Channels 4 channel/16 channel models

**Transmitter Power Output Levels** Hi: 5 W; low: 1 W programmable per channel

**Battery Options**NiCad 7.5 V dc
Bu-MH 1350 mAh

**Battery Recharging Options** 6–unit gang charger, 6–unit regular and fast charger, dual

slot and dual rate "smart" charger, and pedestal charger

<u>Physical Parameters</u>

Size 5.6 in x 2.3 in x 1.7 in (with battery)

Weight 16.4 oz (with battery)

**Power Requirements** 7.5 V dc **External Power** No

E-287 ID# 144

Available Accessories

Speaker-MicrophonesSpeaker microphone with locking connectorCarrying CasesLeather case with swivel and nylon case

Battery Eliminators Not specified Vehicle Adapters Not specified

**Logistical Parameters** 

Programming Dealer/User (authorized technician) programmable -

PC friendly

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Die cast chassis, polycarbonate case, and tough

industrial radio

Environmental Conditions -22 °F to 140 °F
Unit Cost Not specified

**Battery Cycle Life** > 8 h

Rapid Charge Battery Cycle Life 6—unit gang rapid charger, dual slot /dual rate "smart"

harger

Maintenance Cost Not specified
Interface Capability Not specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

**applicable Regulations** FCC Certified for use in USA and its possessions, and IC

approved for sale in Canada

**Support Equipment** 1350 mAh Ni-MH battery pack, UHF antenna, VHF

antenna, rapid rate charger speaker microphone, and cord

Warranty 2 yr
Mil Spec/Mil-Std Ratings No
Intrinsically Safe No

E-288 ID# 144

Name

**ID# 145** 

#### Maxon UHF Transceiver, Portable; SP-150U



Model Number(s) SP-150U

**Technology** Portable, conventional and trunked

Manufacturer Topaz 3, LLC

10828 NW Air World Drive Kansas City, Missouri 64153 816–891–6320 ext. 699 (Tel)

816-891-8815 (Fax)

POC: Liz Hawkins Maxon America

800–821–7848, ext 611 (Tel) liz.hawkins@topaz3.com

**Secure Communication Capability** No

**Availability** Available

Frequency Range 440 MHz to 470 MHz

**Number of Personnel Supported by** 

System

Source

Not specified Not specified

Topaz 3, LLC

Unlimited

**Operational Parameters** 

**Geographic Coverage** 

**Current User(s)** 

Number of Channels 16 conventional channels

**Transmitter Power Output Levels** 1 W to 5 W  $\pm$  10 %

Battery Options
NiCad battery
Ni-MH battery

**Battery Recharging Options**4-station conditioning charger, dual slot/dual rate "smart"

desktop charger, and pedestal charger

Physical Parameters

 Size
 5.6 in x 2.3 in x 1.7 in

 Weight
 16.4 oz (with battery)

**Power Requirements** 7.5 V dc **External Power** No

E-289 ID# 145

**Available Accessories** 

**Speaker-Microphones** Speaker/microphone

Carrying Cases Leather case, nylon case, and spring loaded belt clip

Battery Eliminators Not specified Vehicle Adapters Not specified

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician)

**Repairs** Dealer

DecontaminationNot specifiedDurability/RuggednessIndustrial useEnvironmental Conditions-22 °F to 140 °FUnit CostNot specifiedBattery Cycle Life8 h at 5/5/90 cycle

Rapid Charge Battery Cycle Life Dual slot/dual rate "smart" desktop charger

Maintenance Cost Not specified Interface Capability Not specified

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

**applicable Regulations** FCC Certified for use in USA and its possessions, and IC

approved for sale in Canada

Support Equipment Battery pack, UHF antenna, battery chargers, speaker and

microphone, leather case, and nylon case

Warranty 2 yr

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe** No

E-290 ID# 145

Name Vertex Dual Band (VHF & UHF) Transceiver, Portable; FTH-2070

**ID# 146** 

Model Number(s) FTH-2070A

Technology
Portable, conventional

Manufacturer
Yaesu/Vertex-Standard
17210 Edwards Rd.
Cerritos, California 90703
562–404–2700 (Tel)

POC: Kirk Waddell 720–344–9645 (Tel) 720–344–9647 (Fax)

Secure Communication Capability

Yes with optional encryption module

**Availability** Available

Frequency Range VHF: 150 MHz to 174 MHz; UHF: 409 MHz to 450 MHz,

450 MHz to 480 MHz, or 470 MHz to 490 MHz

Number of Personnel Supported by Unlimited

**System** 

**Geographic Coverage** 50+ with repeater; 3 mi line of sight

Current User(s) Not specified

**Source** Mills' Communications Inc.

210 Pennsylvania Ave. Westminster, MD 21157 410–876–8600 (Tel) 410–848–8600 (Tel) 410–857–8600 (Fax)

POC: Jeff Myers millscom@cct.infi.net

**Operational Parameters** 

Number of Channels 32 channels

**Transmitter Power Output Levels** Hi: 5 W; low: 2 W

Battery Options 12 V NiCad 600 mAH or 1200 mAH (5 W); 12 V NiCad

1000 mAh and NiCad intrinsically safe

Battery Recharging Options Rapid vehicular charger and desktop rapid charger

Physical Parameters

**Size** 2.6 in x 7.9 in x 1.7 in

E-291 ID# 146

Weight 28.8 oz
Power Requirements 12 V dc
External Power No

Available Accessories

**Speaker-Microphones** Yes-heavy duty

Carrying Cases Yes
Battery Eliminators Yes

Vehicle Adapters 6–unit multi-charger

**Logistical Parameters** 

**Programming** Dealer/User (authorized technician) programmable

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Environmental Conditions** -22 °F to 140 °F

Unit Cost \$1.3K

**Battery Cycle Life** 8.1 h/7.0 h (VHF/UHF) 5/5/90 cycle

Rapid Charge Battery Cycle Life

Maintenance Cost

Interface Capability

Not specified

Not specified

Not specified

**Special Requirements** 

Operator Skills Required
Operator Training Requirements
Minimal
Training Available
Manuals Available
Yes
Yes

applicable Regulations Not specified

**Support Equipment** Chargers, batteries, microphones, cases, DTMF keypad,

speaker microphone, belt swival attachment, and cables

with software

**Warranty** 3 yr on transceivers and 1 yr on accessories

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe** Yes

E-292 ID# 146

Vertex FTL Series; FTL-1011 (VHF LowBand)

**ID# 147** 



**Model Number(s)** FTL-1011 (VHF LowBand)

**Technology** Mobile, conventional and trunking capable with optional

accessory board

Manufacturer Yaesu/Vertex-Standard

17210 Edwards Rd. Cerritos, California 90703 562-404-2700 (Tel)

POC: Kirk Waddell 720-344-9645 (Tel) 720-344-9647 (Fax)

Voice inversion encryption available and high security **Secure Communication Capability** 

rolling code encryption

Available **Availability** 

**Frequency Range** 29.7 MHz to 37 MHz 37 MHz to 50 MHz Multiple

**Number of Personnel Supported by** 

**System** 

**Geographic Coverage** Not specified Not specified **Current User(s)** 

Mills' Communications Inc. Source

> 210 Pennsylvania Ave. Westminster, MD 21157 410-876-8600 (Tel) 410-848-8600 (Tel) 410-857-8600 (Fax)

POC: Jeff Myers millscom@cct.infi.net

**Operational Parameters** 

**Number of Channels** 4 channels, 24 channels, and 99 channels

60 W **Transmitter Power Output Levels** 

**Battery Options** Not applicable **Battery Recharging Options** Not applicable

Physical Parameters

Size 6.3 in x 2 in x 7.1 in

> E-293 ID# 147

Weight 3.3 lb
Power Requirements 13.8 V dc
External Power Not applicable

Available Accessories

Speaker-MicrophonesNot applicableCarrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

Logistical Parameters

Programming Dealer/User (authorized technician) programmable -

PC friendly

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Durable chassis construction and heavy-duty heat sink

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Not specified

Not applicable

Rapid Charge Battery Cycle Life

Maintenance Cost

Not specified

**Interface Capability** Yes

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

**Support Equipment** Integrated power supply (117 V ac), integrated power

supply (220 V ac to 234 V ac), voice inversion encryption, high security rolling code encryption, two-tone sequential decoder, dc line filter, microphones, external speakers, audio output option, PC based dispatch system, VX–Trunk I (II) Trunking Mobile Logic Board, remote mount kit, and

radio to computer programming cable with software

**Warranty** 3 yr on transceivers and 1 yr on accessories

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe** No

E-294 ID# 147

Name Vertex FTL Series; FTL-1011H (VHF LowBand

HiPower)

**ID# 148** 



Model Number(s) FTL-1011H (VHF LowBand HiPower)

**Technology** Mobile, conventional and trunking capable with optional

accessory board

Manufacturer Yaesu/Vertex-Standard

17210 Edwards Rd.

Cerritos, California 90703 562–404–2700 (Tel)

POC: Kirk Waddell 720–344–9645 (Tel) 720–344–9647 (Fax)

Secure Communication Capability Voice inversion encryption available and high security

Multiple

rolling code encryption

**Availability** Available

Frequency Range 37 MHz to 50 MHz

Number of Personnel Supported by

System

Geographic Coverage Not specified Current User(s) Not specified

**Source** Mills' Communications Inc.

210 Pennsylvania Ave. Westminster, MD 21157 410–876–8600 (Tel) 410–848–8600 (Tel) 410–857–8600 (Fax)

POC: Jeff Myers millscom@cct.infi.net

**Operational Parameters** 

**Number of Channels** 4 channels, 24 channels, and 99 channels

**Transmitter Power Output Levels** 110 W

Battery Options Not applicable
Battery Recharging Options Not applicable

Physical Parameters

**Size** 6.3 in x 2 in x 11.6 in

E-295 ID# 148

Weight 7.9 lb
Power Requirements 13.8 V dc
External Power Not applicable

Available Accessories

Speaker-MicrophonesNot applicableCarrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

Logistical Parameters

Programming Dealer/User (authorized technician) programmable -

PC friendly

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Durable chassis construction and heavy-duty heat sink

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Not specified

Not applicable

Rapid Charge Battery Cycle Life

Maintenance Cost

Not specified

**Interface Capability** Yes

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

**Support Equipment** Integrated power supply (117 V ac), integrated power

supply (220 V ac to 234 V ac), voice inversion encryption, high security rolling code encryption, two-tone sequential decoder, dc line filter, microphones, external speakers, audio output option, PC based dispatch system, VX–Trunk I (II) Trunking Mobile Logic Board, remote mount kit, and

radio to computer programming cable with software

**Warranty** 3 yr on transceivers and 1 yr on accessories

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe** No

E-296 ID# 148

Name

**ID# 149** 

#### Vertex FTL Series; FTL-2011 (VHF HighBand)



Model Number(s) FTL-2011 (VHF Highband)

**Technology** Mobile, conventional and trunking capable with optional

accessory board

Manufacturer Yaesu/Vertex-Standard

17210 Edwards Rd. Cerritos, California 90703 562–404–2700 (Tel)

POC: Kirk Waddell 720–344–9645 (Tel) 720–344–9647 (Fax)

Secure Communication Capability Voice inversion encryption available and high security

Multiple

rolling code encryption

**Availability** Available

Frequency Range 134 MHz to 160 MHz 148 MHz to 174 MHz

**Number of Personnel Supported by** 

**System** 

Geographic Coverage Not specified Current User(s) Not specified

**Source** Mills' Communications Inc.

210 Pennsylvania Ave. Westminster, MD 21157 410–876–8600 (Tel) 410–848–8600 (Tel) 410–857–8600 (Fax)

POC: Jeff Myers millscom@cct.infi.net

**Operational Parameters** 

**Number of Channels** 4 channels, 24 channels, and 99 channels

**Transmitter Power Output Levels** 40 W

Battery Options Not applicable
Battery Recharging Options Not applicable

Physical Parameters

**Size** 6.3 in x 2 in x 7.1 in

E-297 ID# 149

Weight 3.3 lb
Power Requirements 13.8 V dc
External Power Not applicable

Available Accessories

Speaker-MicrophonesNot applicableCarrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

Logistical Parameters

Programming Dealer/User (authorized technician) programmable -

PC friendly

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Durable chassis construction and heavy-duty heat sink

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Not specified

Not applicable

Rapid Charge Battery Cycle Life

Maintenance Cost

Not specified

**Interface Capability** Yes

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

**Support Equipment** Integrated power supply (117 V ac), integrated power

supply (220 V ac to 234 V ac), voice inversion encryption, high security rolling code encryption, two-tone sequential decoder, dc line filter, microphones, external speakers, audio output option, PC based dispatch system, VX–Trunk I (II) Trunking Mobile Logic Board, remote mount kit, and

radio to computer programming cable with software

**Warranty** 3 yr on transceivers and 1 yr on accessories

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe** No

E-298 ID# 149

Name Vertex FTL Series; FTL-7011 (UHF)

**ID# 150** 



Model Number(s) FTL-7011 (UHF)

**Technology** Mobile, conventional and trunking capable with optional

accessory board

Manufacturer Yaesu/Vertex-Standard

17210 Edwards Rd.

Cerritos, California 90703 562–404–2700 (Tel)

POC: Kirk Waddell 720–344–9645 (Tel) 720–344–9647 (Fax)

Secure Communication Capability Voice inversion encryption available and high security

rolling code encryption

**Availability** Available

Frequency Range 400 MHz to 440 MHz

450 MHz to 490 MHz 480 MHz to 512 MHz

Number of Personnel Supported by Multiple

**System** 

Geographic Coverage Not specified Current User(s) Not specified

**Source** Mills' Communications Inc.

210 Pennsylvania Ave. Westminster, MD 21157 410–876–8600 (Tel) 410–848–8600 (Tel) 410–857–8600 (Fax)

POC: Jeff Myers millscom@cct.infi.net

**Operational Parameters** 

**Number of Channels** 4 channels, 24 channels, and 99 channels

**Transmitter Power Output Levels** 25 W

Battery Options Not applicable
Battery Recharging Options Not applicable

E-299 ID# 150

Physical Parameters

**Size** 6.3 in x 2 in x 7.1 in

Weight 3.3 lb
Power Requirements 13.8 V dc
External Power Not applicable

Available Accessories

Speaker-MicrophonesNot applicableCarrying CasesNot applicableBattery EliminatorsNot applicableVehicle AdaptersNot applicable

**Logistical Parameters** 

Programming Dealer/User (authorized technician) programmable -

PC friendly

**Repairs** Dealer

**Decontamination** Not specified

**Durability/Ruggedness**Durable chassis construction and heavy-duty heat sink

Environmental Conditions

-22 °F to 140 °F

Unit Cost

Not specified

Not applicable

Rapid Charge Battery Cycle Life

Maintenance Cost

Not specified

**Interface Capability** Yes

Special Requirements

Operator Skills RequiredAverageOperator Training RequirementsAverageTraining AvailableYesManuals AvailableYes

applicable Regulations Not specified

**Support Equipment**Integrated power supply (117 V ac), integrated power supply (220 V ac to 234 V ac), voice inversion encryption,

supply (220 V ac to 234 V ac), voice inversion encryption, high security rolling code encryption, two-tone sequential decoder, dc line filter, microphones, external speakers, audio output option, PC based dispatch system, VX–Trunk I (II) Trunking Mobile Logic Board, remote mount kit, and radio to computer programming cable with software

**Warranty** 3 yr on transceivers and 1 yr on accessories

Mil Spec/Mil-Std Ratings Meets Mil Spec 810C, Mil Spec 810D, and Mil Spec 810E

**Intrinsically Safe** No

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