

# GEP3

## Generic Ericsson Processor 3

---

### COMMON COMPONENT INFORMATION (Internal)

GEP3 (Generic Ericsson Processor 3) is an x86 based general processing board within Ericsson Blade System (EBS). It is the 3rd generation in the GEP family.

GEP3 is designed to fit different systems and applications with special requirements. These are high performance, energy efficiency, cost effective solution with superior capacity per volume and based on state of the art components.

GEP3 is delivered and tested with Linux drivers and is used with multiple different distributions.

GEP3 utilizes a 64-bit, 6 cores, Intel Westmere processor (XEON L5638) running at 2.00 GHz, Tylersburg and ICH10 RAID support chipset.

GEP3 is available in one version. GEP3-DOWN with 24GB memory and several variants (HDD, SSD, E1/T1).

GEP3 has 2 x 10 GbE and 2 x GbE to back and 2 x GbE to front.

Other provided features are: SAS controller, Flash Disk, IPMI, dual UEFI BIOS with backup/fallback function, Telco/NEBS compliant.



GEP3-24GB



## Technical Information GEP3

<b>Mechanical</b>
Size: Two slot (30 mm wide)
<b>Power</b>
Typical 100 -130 W
<b>Interface to back plane</b>
<ul style="list-style-type: none"> <li>- 2 x 10GBASE-KX4</li> <li>- 2 x 1000BASE-T</li> <li>- IPMI bus (redundant I<sup>2</sup>C interface)</li> <li>- Power, duplicated -48 VDC</li> </ul>
<b>Interface on front panel</b>
<p>All connectors DensiShield if not noted.</p> <ul style="list-style-type: none"> <li>- 2 x 10/100/1000BASE-T</li> <li>- 1 x 10/100/1000BASE-T for maintenance</li> <li>- 1 x RS-232 Console port</li> <li>- USB port for service and supervision, connector mini USB</li> </ul>
<b>Processor</b>
One embedded x86, 64-bit, 6 cores, Intel Westmere (XEON L5638) 60 W, 2.00 GHz, 12MB cache
<b>Chipset</b>
Tylersburg I/O hub, ICH10R PCH
<b>Bus Interface</b>
Kawela 82576 (1GbE), Niantic 82599 (10GbE)
<b>System Memory</b>
24GB, DDR3 Memory Down
<b>Flash Memory</b>
eUSB 4GB
<b>Storage</b>
<p>Three versions</p> <ul style="list-style-type: none"> <li>- 300 or 600GB HDD</li> <li>- 200GB SSD</li> </ul>

## Management

- Based on IPMI version 1.5
- Sensors (Voltage, Current, Temperature, Frequency)
- BIOS: UEFI from AMI with adaptation

## Standards and Compliances

- Certified SUSE Linux Enterprise Server (SLES) 10
- Certified SUSE Linux Enterprise Server (SLES) 11
- Certified Red Hat Enterprise Linux (RHEL) 6
- GEP specific drivers include for Linux (GSDI)
- Telecom HW characteristics fulfilled, ETSI & NEBS

## Product Information

ROJ 208 821/3 GEP3-24GB  
 ROJ 208 830/3 GEP3-E1/T1  
 ROJ 208 840/3 GEP3-HD300  
 ROJ 208 842/3 GEP3-SSD  
 ROJ 208 844/3 GEP3-HD600