ROT0

ROT4

ONE — ONE3

E0 — E

NONE — NONE3

4

RQ[3:0] — I

4

GNT — GNT[3:0]

ROT4

ROT4

ONE — ONE7

RQ[7:0]

GNT[7:0]

E4 — E

NONE — NONE7

4

RQ[7:4] — I

4

GNT — GNT[7:4]

K2Q

RQ[*]

E[*]

NEXT

GNT[*]

INVALID

NEXT=Exactly 1 or 0 inputs are on

/(NONE3*NONE7) — VALID

ONE3*NONE7+NONE3*ONE7+NONE3*NONE7 — NEXT

HBLKNM=NEXT
K=K1
RS=ARBEN-

NONE3 — E4

VDD — E0

K=K1

WAIT ▷ WAIT

/VALID*/K2Q — INVALID

WAIT+K2Q — ARBEN-

VDD

ROT8

Rotating Priority Selector
Selects one of 8 requests (RQ)
and issues a grant (GNT).
When there are 0 or 1 requests,
NEXT is asserted to allow more
requests on the next cycle.
A request must be cleared when
its GNT is received.