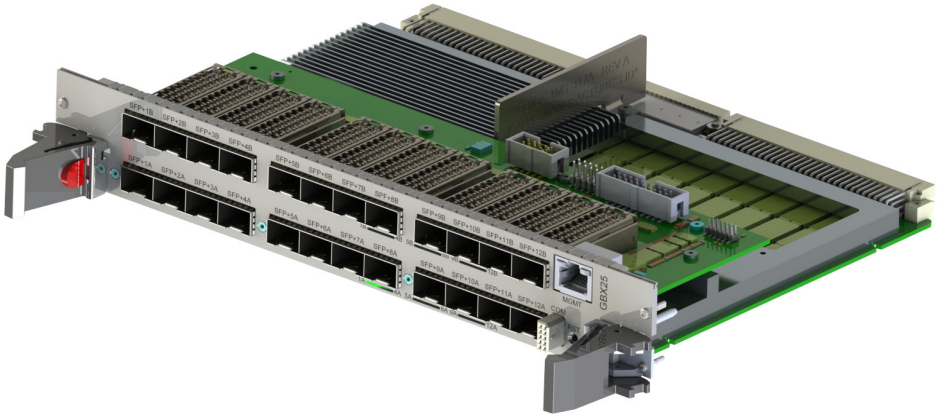

GBX25

Highly flexible, L3 Managed 6U VME NETernity Ethernet Switch

The GBX25 is a highly flexible, fully L3 managed 6U VME Ethernet switch that is ideal for applications with high quantities of ports to the front panel, rear VME connectors or both.

The switch is a simple replacement pathway for all existing GBX24, RM921NB and RM922 customers, as well as being a feature-rich upgrade path for GBX16 and GBX16A customers. Compatibility is designed into the GBX25; GBX24 and RM921NB customers will see 100% pin compatibility.

The GBX25 not only offers excellent backwards compatibility, it also provides a number of market-leading benefits for a 6U VME L2/3 switch. These include:

- Support for up to four front panel 10G modules using SFP+
- A wide range of copper and fibre interface standards are supported by using SFP modules
- Dual I/O variants support up to 40 Ethernet ports (24 rear VME ports and 16 front panel ports)
- A next generation SoC switch fabric helps reduce power
- Supports the latest version of OpenWare, Abaco's flexible, secure and feature- rich switch management software

The GBX25 has been designed to maximize flexibility and help provide the right solution by offering the following front panel SFP module support:

- Up to 4 ports of 10GBASE-SR
- Up to 4 ports of 10GBASE-LR
- Up to 24 ports of:
  - 10/100/1000BASE-T
  - 100BASE-FX
  - 1000BASE-SX
  - 1000BASE-LX

The front I/O focused version of the GBX25 is available with either 12 or 24 ports of SFP cages, allowing the flexibility to choose a single or double slot version of the product

In the primarily rear I/O focused versions of the board, replacing the GBX24, 24 10/100/1000BASE-T ports are provided. Rear I/O versions can also support up to four ports of either 10GBASE-SR/LR or 1000BASE-SX/LX. This version of the GBX25 supports the full Abaco levels 1-3 for ruggedization.

The innovative dual I/O versions of the GBX25 delivers not only 24 ports of 10/100/1000BASE-T to the rear I/O, but also offers up to 16 front panel ports of SFP cages in the double slot configuration.

FEATURES:

- Fully managed L2/L3 switching and routing with OpenWare
- 340Gbits/s switch fabric, allowing full wire speed on all ports
- Up to 4 SFP+ cages supporting 10G
- Up to 24 SFP cages
- Up to 24 rear BASE-T ports
- Support for: 100BASE-FX, 10/100/1000BASE-T, 1000BASE-SX, 1000BASE-LX, 10GBASE-SR, and 10GBASE-LR SFP/SFP+ modules
- Single- and double slot configurations
- Front, rear and dual I/O focused configurations
- RoHS compliant
- Ruggedization levels 1-3 (and -40C to +75C option for double slot configurations)

abaco SYSTEMS

GBX25 *Highly flexible, L3 Managed 6U VME NETernity Ethernet Switch*

Specifications

Switch Fabric

- Next generation 340Gbits/s SoC switch fabric
- Fully managed Layer 2/3 with OpenWare

Physical Interfaces

Front panel:

- 0, 4, 8, 12, 16 or 24 SFP cages (4 SFP+ capable)

Rear:

- 24 10/100/100BASE-T

Supported SFP/SFP+ types:

- 10GABSE-SR
- 10GBASE-LR
- 1000Base-SX
- 1000Base-LX
- 100BASE-FX
- 10/100/1000Base-T

Management:

- Optional OOB and COM

Form Factor

- 6U (4HP) single slot VME Eurocard form factor
- Height: 9.2 in. (233.4mm)
- Depth: 6.3 in. (160mm)
- Thickness:
  - 0.8 in. (20.3mm) single slot
  - 1.6 in. (40.6mm) double slot
- Weight:
  - Single slot: TBD
  - Double slot: TBD

MTBF

- TBD hours per Ground Fixed 40C

Ruggedisation Levels:

Rear I/O variants:

- Levels 1-3

Front and dual I/O variants:

- Levels 1 and 2
- Level 9 (-40C to +75C and L2 shock/ vibration)

Power Requirements:

Rear I/O variants:

- Maximum 35W/5V @ 7A

Front and Dual I/O variants:

- Maximum 50W/5V @ 10A

Block diagram