
The FourthRack System

High-density rack-mount multi-function G.703 and G.704 interface converters

The low cost answer for high density 2.048Mbps and FE1 Nx64k connectivity



The FourthRack Chassis is an evolution of the highly successful MicroMux SP-1 RM system. It has been designed specifically to meet the needs of the demanding service provider sector and medium to large scale enterprise users. The FourthRack Chassis features two power supply slots and fourteen Line Card slots. All connectors and indicators are easily accessible and visible on the front of the power supplies and Line Cards.

Two power supply options are available. The auto-ranging, self sensing AC supply and a forty-eight volt DC supply, can be used either singly or in pairs with load sharing.

An optional FourthRack Management System can be co-located within each of the power supply slots.

Either one or both power supplies can be fitted with the management option, with automatic arbitration between the two management entities. Fitting management does not deplete the number of slots available for Line Cards.

The FourthRack Chassis supports a family of 'hot-swappable' Line Cards. By customer demand the cards are now built on a single board for greater reliability. The G.703 Line Card is rack mount card version of the popular Fourthtrack MicroMux G.703, available in both 75 ohm and 120 ohm versions. They can be configured using on-board jumpers in un-managed racks, and via management in managed racks.

The FourthRack G.704 Line Card is a direct derivative of the MicroMux G.704, supporting both Nx64k rate adaption and clear channel 2.048Mbps operation.

The FourthRack G.704 Line Card may be used in managed and unmanaged chassis systems. The FourthRack Management System can also manage a remote MicroMux G.704 used in conjunction with a FourthRack G.704 Line Card in structured mode.

Specifications

- Input Port:** FourthRack G.703 and FourthRack G.704 Line Cards:
Synchronous serial DB15 female connector
X.21 / V.11 and V.35 with common clocks (selectable when V.35 option fitted)
D.T.E. clock inversion option (jumper selectable)
Local look back (recessed push switch with time out on front panel)
- Output Port:** FourthRack G.703 Line Card:
G.703 clear channel 2.048Mbps
Support for recovered clock (loop timing) and internal master clock (management or jumper selectable)
Network side data inversion option (management or jumper selectable)
- FourthRack G.704 Line Card:
G.703 overlaid with G.704 framing, for Nx64k rate adaption, with any combination of time slot assignments (management or jumper selectable)
Support for use of recovered clock or internal master clock, and CRC4 enable / disable (management or jumper selectable)
Network side data inversion option (management or jumper selectable)
- FourthRack G.703 and FourthRack G.704 Line Cards:
75 ohm un-balanced version - twin co-ax BNC female connectors
120 ohm balanced version - RJ45 socket
Loop back option (recessed push switch with time out on front panel)
- Status indicators:** Green L.E.D. for power status (P)
Green L.E.D. for carrier line status (N)
Amber L.E.D. for clock master enabled (C)
Amber L.E.D. for terminal timing enabled (T)
Amber L.E.D. for loop back enabled (L)
- Power supply:** International AC power supply auto-ranging – 90 to 260VAC, 50/60Hz
DC option – 36 to 72 VDC
- Dimensions:** FourthRack Chassis - 19" (440mm) rack mount
260mm depth to rack front mounting
89mm ('2U') in height

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