
MicroMux G.704

Interface converter with management for structured G.703 / E1

The ultra low cost answer for Nx64k rate adaption and structured connectivity



The MicroMux G.704 Interface Converter from Fourthtrack Systems is probably the most cost competitive solution for connecting data communications equipment to structured two mega-bit data circuits.

A derivative of the highly successful MicroMux SP-3, the MicroMux G.704 has been engineered to reduce cost in this expanding sector of the market, and thus enhance Fourthtrack Systems' position as the market's leading provider of G.703 / G.704 interface converters.

Many of the so called low-end routers available today can handle 2Mbit/s throughput, but they only have conventional DTE interfaces, usually X.21 or EIA530. By combining one of these routers with a MicroMux G.704 users can enjoy the high performance of up to 2Mbit/s without the expense of a higher end router.

The MicroMux G.704 can support the full range of Nx64k fractional E1 date rates too, with any combination of time slot assignments.

The MicroMux G.704 supports X.21, EIA530 and RS449 interfaces, including support for the external terminal timing signal on EIA530. It also supports V.35 in addition to the above, and it can be configured either to X.21, EIA530 and RS449, or to V.35 in the field.

The MicroMux G.704 supports 75 ohm unbalanced and 120 ohm balanced G.703 connection. Selection of which type is by way of two externally accessible switches, and use of either the BNC connections (unbalanced) or the RJ45 connection (balanced). CRC4 can be enabled / disabled.

Specifications

- Input Port:** Synchronous serial DB15 female connector
X.21 / V.11 or V.35 (field selectable), support for common clocks
Data rates of Nx64k with any value from N=1 to N=32
(N=32 is clear channel mode)
External terminal timing signal EIA530/RS449/V.35 (switch selectable)
D.T.E. clock inversion option (switch selectable)
Local loop back option (switch selectable)
- Output Port:** G.703 overlaid with G.704 framing, for Nx64k rate adaption, with any combination of time slot assignments.
Support for use of recovered clock or internal master clock, and CRC4 enable / disable (management selectable)
Twin co-ax BNC (75 ohm un-balanced termination) connectors and RJ45 socket (120 ohm balanced termination)
Network side data inversion option (switch selectable)
Remote loop back option (switch selectable)
(BAPT Approval Number NS/3934/1/N/608027 for 75 ohm connection)
(CE 168 X for the standard 120 ohm connection)
- Management Port:** Front panel async management ports on RJ45, for remote management in G.704 mode (TS0 carried end-to-end)
- Status indicators:** Green L.E.D. for power status.
Green L.E.D. for carrier line status.
Amber L.E.D. for clock master enabled.
Amber L.E.D. for loop back enabled.
Amber L.E.D. for terminal timing enabled.
- Power supply:** Internal international power supply auto-ranging – 90 to 260V, 50/60Hz
DC option – 36 to 72 VDC
- Dimensions:** 195 mm x 121mm (138mm over connectors) x 45mm
(7.7" x 4.8" x 1.8" approx).

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