
MicroMux G.703

Interface converter for unstructured G.703 / E1

The ultra low cost answer for 2048kbit/s connectivity



The MicroMux G.703 Interface Converter from Fourthtrack Systems is probably the most cost competitive solution for connecting data communications equipment to two mega-bit leased line private circuits.

A derivative of the highly successful MicroMux SP-1 RA, the MicroMux G.703 has been engineered to reduce cost and increase functionality in this expanding sector of the market, and thus enhance Fourthtrack Systems' position as the market's leading provider of G.703 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.703 users can enjoy the high performance of 2Mbit/s without the expense of a higher end router.

The MicroMux G.703 comes in two versions. The basic unit supports X.21, EIA530 and RS449 interfaces, including support for the external terminal timing signal on EIA530. The enhanced version 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.

Both versions of the MicroMux G.703 support 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).

The unit is provided with an internal power supply and an IEC-connected mains lead to ensure stability in network critical applications. Units with auto-sensing AC power supplies and DC powered units are also available.

Specifications

- Input Port:** Synchronous serial DB15 female connector
X.21 / V.11 or V.35 (field selectable), support for common clocks
D.T.E. clock inversion option (switch selectable)
Local loop back option (switch selectable)
- X.21 version:** X.21 / V.11, 2048kbp/s speed, DB15 female connector
(support for EIA530 and RS449, using external adapter cables)
- X.21/V.35 version:** As above plus support for V.35
(factory fitted option, connector defined using external adapter cable)
- Output Port:** G.703 clear channel, support for recovered clock (loop timing) and
internal master clock (switch 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)
(BABT Approval Number NS/3934/1/N/608027 for 75 ohm connection)
(CE 168 X for the standard 120 ohm connection)
- 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 power supply - 230V, 50Hz.
International version with 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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Fourthtrack Systems

Unit 11 Lowfield Green
Caversham Park
Reading – RG4 6NZ
United Kingdom

Telephone: 0118-946-3061
Fax: 0118-946-3091

www.fourthtrack.co.uk
