Megaplex-4100/2100/2104

HS-703

4-Channel G.703 Codirectional Data Module

- Separate connector for each channel
- Enhanced diagnostics
- Parameter setting via Management System
- For any I/O slot of Megaplex-2100, Megaplex-2104 or Megaplex-4100

The HS-703 module provides Megaplex with four 64-kbps G.703 codirectional data channels. Each channel can be independently enabled or disabled by software configuration.

Any channel of the HS-703 module may be directed to any channel of another HS-703 module at the remote site (the remote module may also be any other G.703-compatible module). The timeslots used on the T1 or E1 links are individually assigned by the user for each channel.

An HS-703 channel, when connected to a remote low speed module, transparently transmits even multiplexed signals.

Transmit Pair timing (RX-OUT) is always locked to the Megaplex nodal timing.

For the Receive Pair timing (TX-IN), two timing modes are supported by the Megaplex system:

- Internal – where the G.703 timing source is locked to the Megaplex nodal timing.

- External – where the Megaplex nodal timing is locked to the receive pair timing of one of the HS-703 channels. This locks the Megaplex nodal timing to the external 640-kbps G.703 channel.
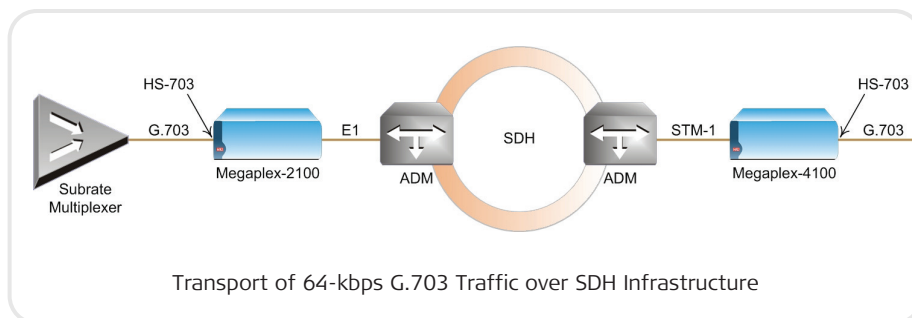
Extensive diagnostics include local and remote loopbacks and reduce the module downtime to a minimum.

Separate LED indicators for each channel show loss of signal (TX LOSS) or loss of octet timing (OOS).

Each channel terminates in a separate 8-pin RJ-45 connector.

All operating parameters of HS-703 are soft-selectable through the Megaplex management system.

Four 64-kbps G.703 codirectional data channels

Transport of 64-kbps G.703 Traffic over SDH Infrastructure

RAD
data communications
The Access Company

HS-703
4-Channel G.703 Codirectional Data Module

Specifications

Number of Data Channels
4

Data Rate per Channel
64 kbps

Interface
Codirectional, per ITU-T G.703

Connectors
RJ-45 (one for each channel)

Transmit Pair Timing (RX-OUT)
HS-703 channel timing is locked to
Megaplex nodal timing

Receive Pair Timing (TX-IN)
Internal: locked to Megaplex nodal timing

External: Megaplex nodal timing is locked
to the external G.703 timing source from
one of the HS-703 channels

Diagnostics (per channel)
Local loopback (towards local
G.703 equipment)

Remote loopback (towards
remote equipment)

Indicators (per channel)
TX LOSS (red) – loss of signal
OOS (red) – loss of octet timing

Configuration
Programmable via the Megaplex
management system

Environment
Operating temperature: 0°C to 45°C
(32°F to 113°F)
Storage temperature: -20°C to +70°C
(-4°F to +160°F)
Humidity: up to 95%, non-condensing

Ordering

MP-2100M-HS-703
4-channel G.703 codirectional data
module for MP-2100/2104 and MP-4100

Megaplex High-Speed Modules

Feature	HS-2	HS-Q/N	HS-6N/ HS-12N	HS-U/HS-U-6/ HS-U-12	HS-703	HS-S	HSF-1/HSF-2
Interface Type	V.24/RS-232, V.35, X.21 or V.11/RS-422	V.24/RS-232, V.35, X.21 or V.11/RS-422	V.24/RS-232, V.35, X.21 or V.11/RS-422	ISDN "U"	G.703	ISDN "S"	IEEE C37.94 Fiber optic
Number of Channels	2	4	6/12	4/6/12	4	4	1/2
Number of Connectors	2	4	2/4	4	4	4	1/2
Data Rate	n x 64 kbps n x 56 kbps	n x 64 kbps n x 56 kbps	n x 64 kbps	128 kbps	64 kbps	128 kbps	up to 10x64 kbps
Supported by MP-4100	–	–	✓	HS-U-6 HS-U-12	✓	✓	HSF-2