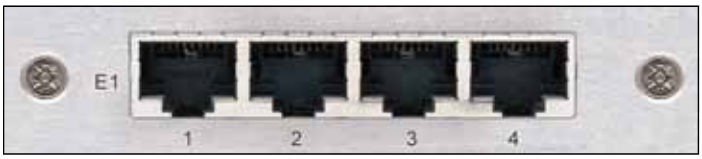
Evolution Series

Terrestrial Interface Cards for all Evolution Modems

P3706 Quad E1 G.703 Mux card



- Supports up to 4 x synchronous E1 G.703 balanced interfaces multiplexed to a single carrier
- Includes Drop & Insert function on port 1 as standard
- Can be configured as Drop & Insert or full E1 on any port
- Supports the Extended Drop & Insert function, provided this feature is in the host modem, catering for any number of timeslots 1 to 31
- Provides efficient use of satellite bandwidth by transmitting only revenue earning traffic
- Requires IBS/SMS option in the host modem
- Can be operated in stand-alone or 1:1 redundant configuration
- MultiMux™ option allows up to two G.703 traffic streams to be replaced by IP and/or EIA530 traffic - see MultiMux™ datasheet for full details.

P3713 Eurocom D1 / EIA530 card

- Provides a Eurocom D interface, not limited to Eurocom D rates. Supports <16kbps to >2048kbps AMI coded, plus an internal transmit clock facility, if required
- Provides a Eurocom G interface 16kbps or 32kbps diphase coded
- Provides a Eurocom C interface 256kbps, 512kbps, 1,024kbps and 2,048kbps HDB3 coded
- Offers balanced Eurocom signals via true floating transformer-coupled or a ground referenced interface
- Electronically selectable EIA530 signals, on the same 25-way D type female connector
- EIA530 DCE allows RS422 / X.21 / V.35, to 10Mbps (subject to maximum data rate options in the host modem) / RS232 (maximum 100kbps) / balanced G.703 (provided host modem has G.703 option)

P3714 IP Traffic card

- Supports TCP acceleration to 16,896kbps, 25Mbps (option) or 55Mbps (option), subject to compatible data rate options in the host modem
- Supports up to 10,000 concurrent TCP connections
- Overcomes the inherent limitations of standard TCP/IP over satellite
- Improves bandwidth utilisation to approximately 90% of selected data rate, with acceleration on
- Reduces the inefficiencies of the standard TCP slow start algorithm
- Prevents unnecessary activation of TCP congestion control algorithm
- Supports Robust Header Compression to RFC 3059 (IP/UDP/RTP) at throughput rates to 29kpkts/s (1-way), 22kpkts/s (2-way), subject to prevailing data rate limits
- Supports HTTP Acceleration by prefetching webpage inline objects to reduce webpage download time
- Improves security by separating IP traffic from Ethernet remote M&C
- Dual Ethernet RJ45 ports support 10/100/1000 BaseT Ethernet
- Can be operated in stand-alone, 1:1 or 1:N redundant configuration

P3709 Eurocom D1 card

- Provides a Eurocom D interface <16kbps to >2048kbps AMI coded, not limited to Eurocom rates, plus an internal transmit clock facility, if required
- Provides a Eurocom G interface 16kbps or 32kbps diphase coded
- Offers balanced Eurocom signals via true floating transformer-coupled or a ground referenced interface
- 25-way D type male connector, pin for pin compatible with the P300 Eurocom modem

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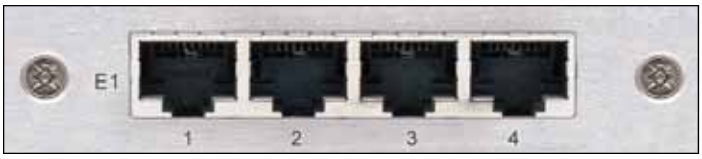
Applications:

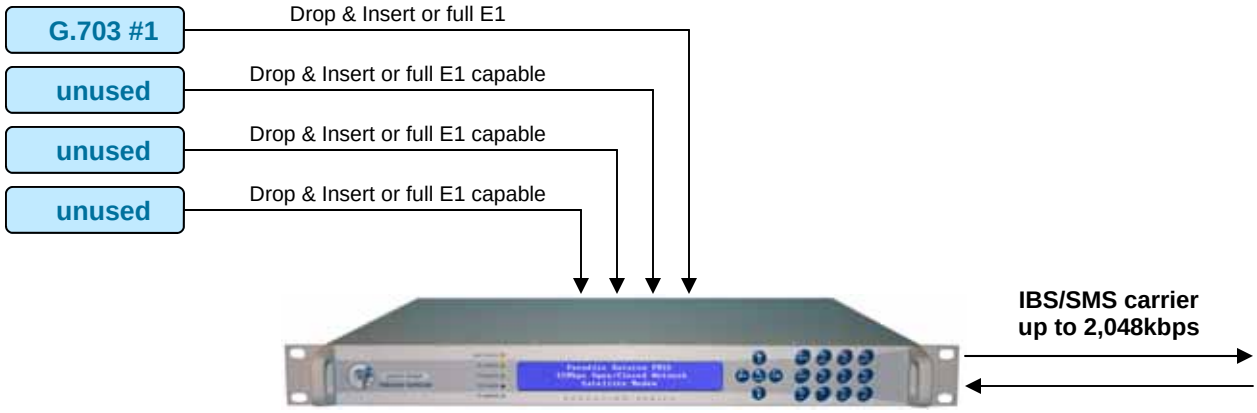
P3706 Quad E1 G.703 Mux card



- **GSM over satellite**
- **Fixed or expanding systems using E1 bearers**
- **Situations where multiple E1 bearers must be concentrated into a single carrier**

E1 interfaces can be enabled and configured by the user using front panel or remote control so as to match traffic demands. E1 G.703 ports may be progressively enabled, and when enabled, all ports may carry either partial E1 bearers (using Drop & Insert) or full E1 channels.

Example of an initial install with a single E1 bearer for a phase 1 GSM system



Example of a final install with three full E1 bearers plus either a full or partial E1