High Capacity Digital Cross-connect

Timeslot Switching on PCM

E1 or T1

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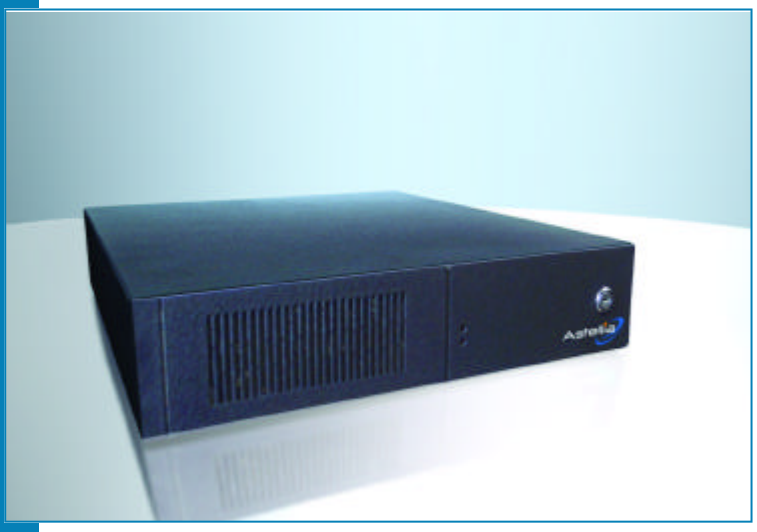


MANTA-R324
32 incoming PCM*
4 outgoing PCM*

MANTA-R328
32 incoming PCM*
8 outgoing PCM*

*bidirectional PCM links

Easy to use

Scanning

Chainable

Remote operating

Direct synchronization on PCM input

Configurable input gain

Low cost

E1-T1 conversion
T1-E1 conversion

MANTA is a rack mounted digital multiplexer dedicated to timeslots grooming for monitoring purpose.

Any timeslot of the incoming PCM links may be switched to one times-lot or more of the outgoing PCM links.

The scanning mode brings the auto-configuration to MANTA and allows a real- time adaptation to the network reconfigurations.

Manta remote operation gives the operator the ability to manage from a central point all the Mantas deployed in the network.

Typical Applications

Concentration of useful timeslots (signalling or voice) towards a monitoring tool.

Allowing several monitoring tools to watch the same signalling channels at the same time.

Timeslots grooming.

Connecting an E1 monitoring tool to a T1 network.

Astellia

Functionality

Timeslot Switching
Any of the input timeslots can be switched to any of the output timeslots available. An incoming timeslot can also be duplicated on several outgoing timeslots. Both Tx and Rx of each timeslot are switched.

PCM Switching
Any of the input PCM links can be switched to any of the output PCM links. An incoming PCM link can also be duplicated on several outgoing PCM links. Timeslot and PCM link switching can be combined in the same configuration of MANTA.

Scanning Mode
Incoming timeslots are continuously scanned in order to detect signalling channels. These channels are automatically switched to one of the output timeslots. This mode largely simplifies the configuration of MANTA and allows an automatic adaptation to the network reconfigurations.

Chainable
An unlimited number of MANTAs can be chained to expand the number of inputs and outputs.

Configuration
MANTA is configured via its V.24 (RS-232) port using the MANTA Pilot application. As the configuration is stored in the MANTA flash memory, it remains available after a restart. An Ethernet option is available to allow a remote control of MANTA.

Pilot Software
The Pilot application is an easy-to-use software running under Windows 98/NT/2000/XP. Links definition is graphically performed in a drag and drop manner. A link couples one timeslot from one incoming PCM link to one timeslot on one outgoing PCM link. Timeslot aggregations are managed for a handy configuration of channel grooming on Gb interfaces.

Domains
Each PCM link output can be dedicated to a specific user. So, a MANTA can be shared between users without any risk of configuration conflict.

MANTA API
An Application Program Interface can be delivered. It enables third-party developers to integrate MANTA management in their solutions.

Input Settings
Manta is able to select automatically the best gain for each input. Gain is up to + 32 dB.

T1/E1 Conversion
A specific version of MANTA is available to offer a conversion function enabling timeslots switching from E1 inputs to T1 outputs or from T1 inputs to E1 outputs. This MANTA is configurable as 28 PCM inputs / 4 PCM outputs or 24 PCM inputs / 8 PCM outputs.

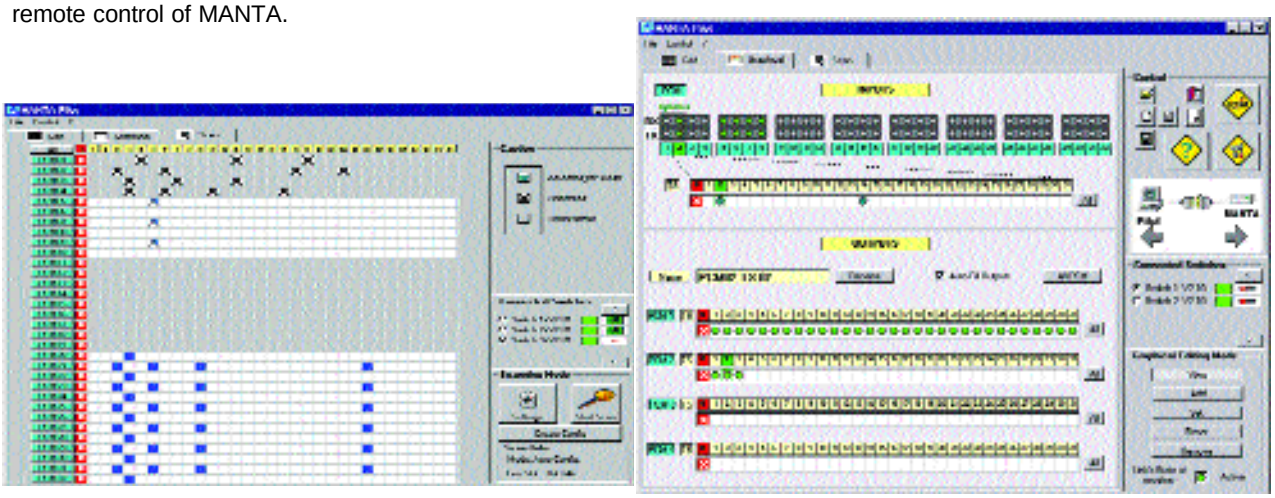
Specifications

Line Interface
- High impedance inputs on 120/100 twisted pair 75 Ohms coaxial
- Outputs on 120/100 Ohms twisted pair or 75 Ohms coaxial
- E1 or T1 configuration, ITU-T G.703, G.704
- Inputs sensitivity: -32dB

General Data
- Dimensions: 19“, 2U
- Weight: 8 Kg
- Input Voltage: 90-132 / 180-264 VAC
- EMC:
  - EN 50081-1
  - EN 50082-2
  - FCC part 15
  - CEI 60950

Supplies
- Rack mounted equipment
- MANTA Pilot software for Windows 98/NT/2000/XP.
- MANTA user manual

Options
- Ethernet port for remote control
- Network cables



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