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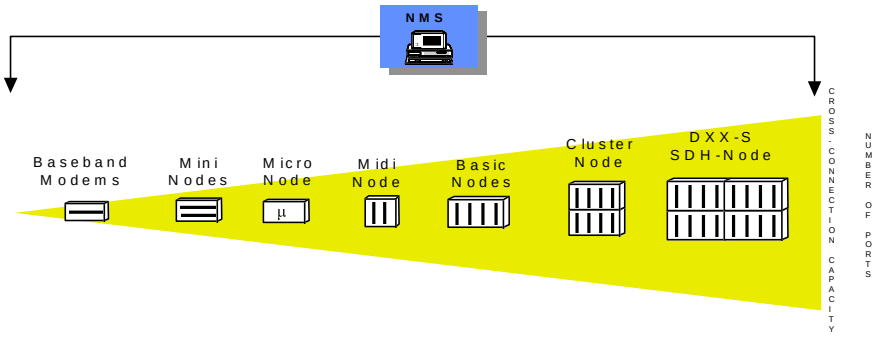
Martis DXX™ System Data Sheet

STU-160 Baseband Modem and IUM Interface Units

OVERVIEW

*Designed specifically for public network operators, the **Martis DXX** platform is a system of modular hardware and powerful software that enables the rapid deployment and expansion of access and transport networks of any size. A Martis DXX system is made up of intelligent digital access and cross-connect nodes, configurable and scaleable to meet customer requirements, whatever their size or service needs. All Martis DXX network elements are managed and flexibly configured using a single network management system. It enables the operators to provide and manage all the circuits in a corporate network from a centralised site.*



STU-160 Baseband Modem

The STU-160 baseband modem serves as a network terminating unit (NTU) and is designed for leased-line data networks for terminal rates up to 128 kbps. The unit is equipped with two independent terminal interfaces, which share the total available 128 kbps data transmission capacity. It means that you can connect two pieces of equipment to just one STU-160 modem. At the network side, the STU 160 modem is connected to an IUM interface unit located in a Martis DXX node. Because of the possibility to connect up to eight STU-160 modems to just one IUM interface unit (resulting in up to 16 64-kbps channel connections), little investment is needed to integrate and manage several modems and circuits in the Martis DXX system. Furthermore, The STU-160 modem is fully integrated with the powerful Martis DXX Network Management System.

Below, the STU-10 baseband modem, and on the left, the IUM-5T interface module.

STU-160 Modem Installation The STU-160 provides two independent channels which can be freely configured up to the maximum combined speed of 128 kbps.

Interface Modules Two interface modules can be installed in one STU-160 modem.

VMI 370	V.35 interface module (D25 connector). Additional adapter cables may be needed.
VMI 377	V.35 interface module (34-pin female ISO 2593 connector).
VHI 371	V.36/X.21 (D25 connector) interface module. Additional adapter cables may be needed.
VLI 372	V.24/V.28 interface module
XMI 378	X.21 interface module (15-pin female D-connector, ISO 4903)
GMI 373	64 kbps G.703 co-directional interface, standard D25-connector. Additional adapter cables may be needed.

Features
Data rates: 1.2 kbps up to 128 kbps.
Line code: 2B1Q, 2W connection.
Line rate: 160 kbps.
Impedance: 135 Ohms.
Transmit level: + 13.5 dBm.

Dimensions (w x d x h) 240 x 290 x 53 mm.

Network Management System (NMS)
STU-160 is fully integrated with the Martis DXX Network Management System.
VMI 373 and XMI 378 require NMS Release 9.0 or later.

Standards
Safety: EN41003, EN 60950.
EMC: ETS 300 386-1.

Power Consumption Maximum 10 W.

IUM-5T and IUM-10T Installation
IUM-5T and IUM-10T are baseband interface units for STU-160. These unterface units can be installed in Basic and Midi Nodes.
IUM-5T provides 4 channels and IUM-10T provides 8 channels.

Channel Capacity 2B + D (144 kbps), 8 kbps of D-channel cross-connected for end-to-end CRC.

Features
Line rate: 160 kbps (2B + D).
Symbol rate: 80 kBaud.
Signal encoding: 2B1Q.
Impedance: 135 Ohms.
Line connection: 2W full duplex.

Network Management System (NMS)
IUM-5T and IUM-10T are fully integrated with Martis DXX Network Management System.

Standards
Safety: EN41003, EN 60950.
EMC: ETS 300 386-1.

Power Consumption
IUM-5T: 4.5 W
IUM-10T: 9 W.

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