

Industrial SHDSL-EFM Modem

P/N : [ITT-TM660](#)



Introduction



The Netex + Mini SHDSL.bis product family offers a broad range of products, which are based on the latest SHDSL.bis standards (ITU-T G.991.2 & ETS TS 101524), while also being fully interoperable with all our existing SHDSL equipment. The Netex + Mini supports beside of the standardized TC-PAM16/32 also the new extended TC-PAM4/8/64/128 line coding. SHDSL.bis allows symmetrical data and voice transmission at speeds up to 15Mbps over a single pair of copper. In addition, the Netex + Mini SHDSL.bis modem range also supports DSL channel bonding for up to 2 copper pairs in order to achieve speeds up to 30.4Mbps. An integrated 2 port Ethernet layer 2 managed switch with VLAN, QoS and RSTP support (10/100BaseT) ensures connectivity to IP services.

The Netex + Mini SHDSL.bis modems is a perfect solution for a wide range of applications in which IP services need to be transmitted over copper wires. The Mini SHDSL.bis product is a small-sized NTU unit with all the functionality included.

Like all Netex + products the Netex + Mini SHDSL.bis modems are based on industrial components and manufactured according to highest quality standards providing additional value due to the extended temperature ranges and higher reliability. The combination of comprehensive functions providing maximum flexibility together with the higher quality of the Netex + Mini SHDSL.bis product family make it the perfect choice for all your DSL needs.

Features & Benefits

SOCRATES-e Transceiver
Selectable bitrate (including auto mode)
Use as EFM Modem, SHDSL-EFM-Module or Plug & Play Ethernet Extender
USB EIA232 emulation or TTL compatible EIA232 interface
On Board software
Low Cost Fixed Interfaces
Din-rail or Standalone Solutions
Smallest Size
Extended Temperature option (-40°C... +80°C)
Steel case

SERVICES:
Guaranteed Warranty



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Properties

EFM Modem	Select Bitrate using rotary switch Select Mode using DIP switch Connect SHDSL line to SHDSL plug Connect Ethernet using Ethernet plug Connect Micro USB port for power
SHDSL EFM Module	Select Bitrate using rotary switch Select Mode using DIP switch Connect SHDSL line via the SHDSL pin header Connect Ethernet via the Ethernet pin header Connect +5.0VDC power via the power pin header
Plug and Play Ethernet Extender	Select Bitrate using rotary switch Using the DIP switch, set one board to STU-C (master) and the other to STU-R (slave) Connect SHDSL ports together with twisted pair Connect Ethernet ports Power up and the connection will establish after a few seconds
Copper Pairs:	4 with Modes Master / Slave / Auto / Multipoint / Multipair
Interface:	2x E1 (120Ohm), 2x Ethernet 10/100BaseT (Layer 2 Managed Switch)
Power:	36 to 230VDC, accepts local and remote power, 5.3W Typ. 18 to 230VDC, no remote power when FG-PAM-SA4N-2E1B/2Eth-24V, V84E
Physical Interfaces:	RJ48 (E1), RJ45 (Ethernet), RJ48 (SHDSL), Molex (Power), DB9/USB (LCT)
Management	Console Port, Telnet, HTTP and SNMP
Temperature	Standard: -5 to +45°C, Extended: -20 to +80°C
Power Supply:	12/24/48 VDC < 0.5A @24VDC

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Website: ittelecom.co

Skype: [ittelecomco](https://www.skype.com/en/contacts/ittelecomco)

Email: mailto:sale@ittelecom.co