

IM-1000

IDSL Modem, NTU

Description

Olencom's IM-1000 DTU series provides an economic solution to extend DTE interfaces over 2 copper wires up to 5.5 Km. This series uses adaptive echo cancellation to provide high quality 128 Kbps digital data transport. The IM-1000 DTU series provides one DTE port, operating at synchronous rates from 1.2 to 128 Kbps and asynchronous rates to 19.2 Kbps. Co-direction is supported. This allows users to interconnect LANs and WANs, CAM video conference, mainframe hosts, and others.

IM-1000 is released as two models: stand alone unit and plug-in card for 19" chassis.

IM-1000 DTU series supports configuration and diagnostics from front panel LCD display and keypads or RS232 console port. This allows users to execute diagnostics and fault isolation.

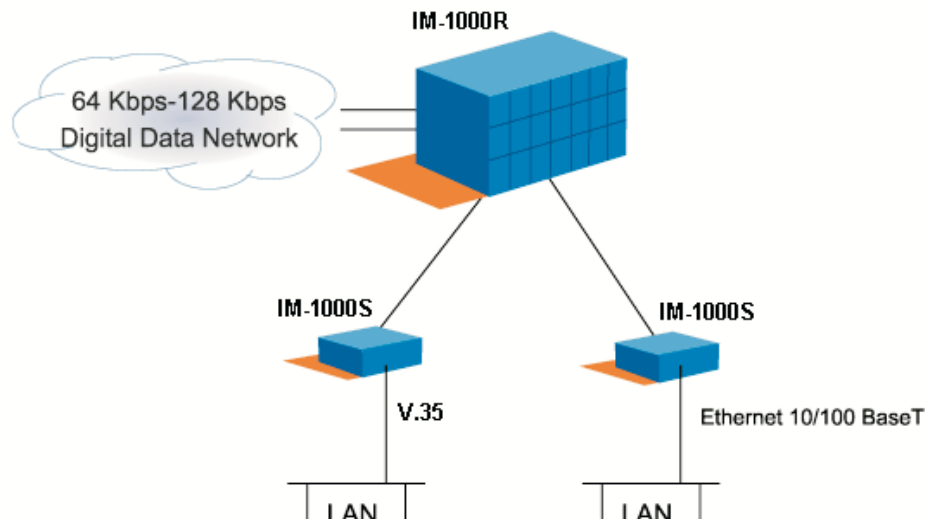
This product series also provides 9 LEDs for both line side and DTE side status indicators.

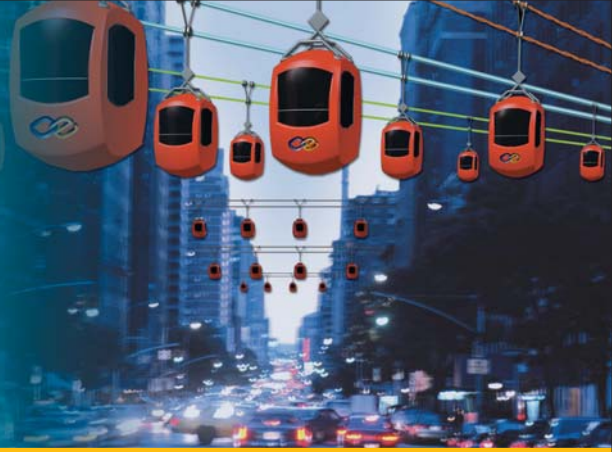


Features

- ✓ Up to 5.5 Km distance over unconditioned 24 AWG wires.
- ✓ High Speed DTE interface up to 128 Kbps synchronous, up to 19.2 Kbps asynchronous.
- ✓ Co-direction: ITU G.703 64Kbps
- ✓ Connection to LAN/WAN, CAD/CAM, or Host services.
- ✓ 2-line by 16-character LCD display, 4 keys, 9 LEDs allow front panel configuration and diagnostics.
- ✓ Local or remote terminal configuration and diagnostics capabilities.

Applications





IM-1000

IDSL Modem, NTU

Product Specifications

Line Interface

Type	Full duplex with adaptive echo cancellation
Line Coding	2B1Q
Line Type	Unconditioned twisted pair 19-26 AWG
Surge Protection	Meets FCC Part 68 Subpart D
Connector	RJ48

Customer DTE Interface

Number of Port	1
Data Rate	1.2, 2.4, 4.8, 9.6, 19.2, 38.4, 48, 56, 64, 112 and 128 Kbps synchronous, up to 19.2 Kbps asynchronous.
Connector	as order: V.35, EIA530, X.21, RS232, RS449 via conversion cable

Co-directional Interface

Interface	ITU G.703 64 Kbps co-directional interface
Connector	120ohm, RJ48
Line Distance	Up to 500 meters
Loopback	DTE Payload Loopback, DTE to Line Loopback
LED	3 LEDs: each for SYNC, LOS, and TEST

Router Interface

Number of ports	1 LAN ports, Max. 2 WAN ports
Physical Interface	10/100 BaseT x 1
Connector	RJ45
Supporting routing protocol	RIP-I, RIP-II
Data Rates	Channelized up to 128 Kbps
Supporting Protocols	TCP/IP, PPP, HDLC
Management	VT-100

Clock source

Internal, Line, or DTE

Diagnostics Test

Loopbacks	Payload Loopback, Local Loopback, DTE Loopback, Remote Loopback, and remote DTE Loopback (only EIA530 supports ITU-T V.54)
Test Pattern	PRBS 2047

Console Port

Connector	RJ-11 at Front Panel
Electrical	RS232 interface
Protocol	Menu driven VT-100 terminal

Front Panel

Keypad	4 keys: Left arrow, Right arrow, ESC, and ENTER
LCD	2 lines by 16 characters
LED	9 LEDs: POWER, LINE [sync, test, alarm], DTE [test, td, rd, rts, clk-loss]

Physical/electrical

Temperature range	0-50°C
Humidity	0-95% (non-condensing)

Stand-alone unit:

Dimensions	22 x 6 x 29 cm, 8 1/2" x 2 1/4" x 11 1/4" (WxHxD)
Power	20-60 Vdc / 90-264 Vac, 5 watts
Mounting	Desk-top stackable

Plug-in card:

Dimensions	29.5 x 2.7 x 17 cm, 12" x 1" x 7" (WxHxD) each rack cage can have 16 plug-in units, plus controller card
Power	24 - 48 Vdc, 5 watts per card
Mounting	19/23 inch rack mountable

Compliance

ANSI T1.601, ITU-T V.11, V.28, ETSI ETR080, ITU-T V.54

