

## AMX-1341

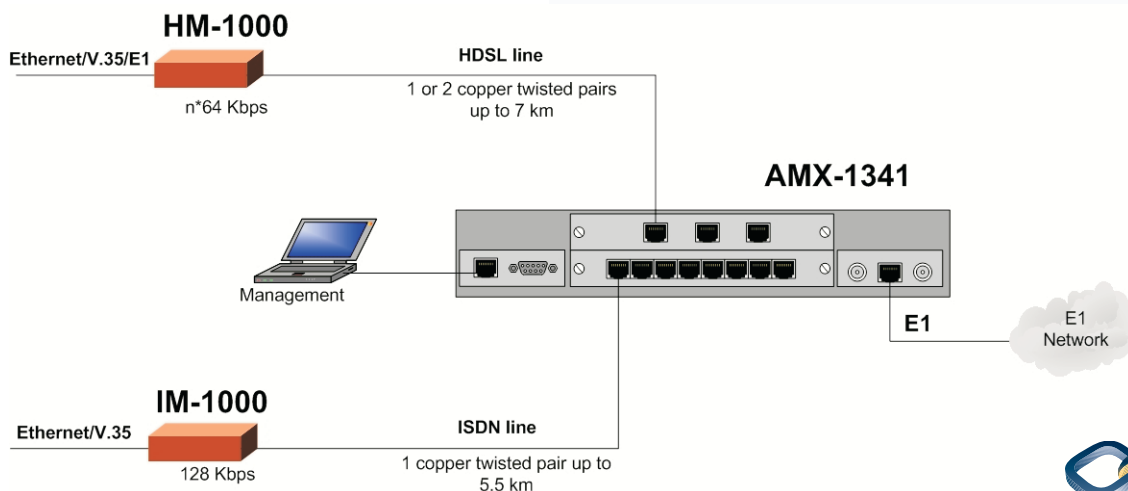
### Access Multiplexer

#### Description

AMX-1341 is an Access Multiplexer that can combine various digital access interfaces into a single E1 or T1 line for convenient transport and switching. Interfaces include MDSL, U type, and E1 interface with Router port. These interfaces are compatible with other Olencom's products such as HM-1000 for MDSL and IM-1000 for ISDN. Up to 31/24 time slots for the MDSL interface are then multiplexed to fill an E1/T1 line, with full flexibility of time slot assignment. Up to 2 time slots for the U interface are then multiplexed to fill an E1/T1 line, with full flexibility of time slot assignment.

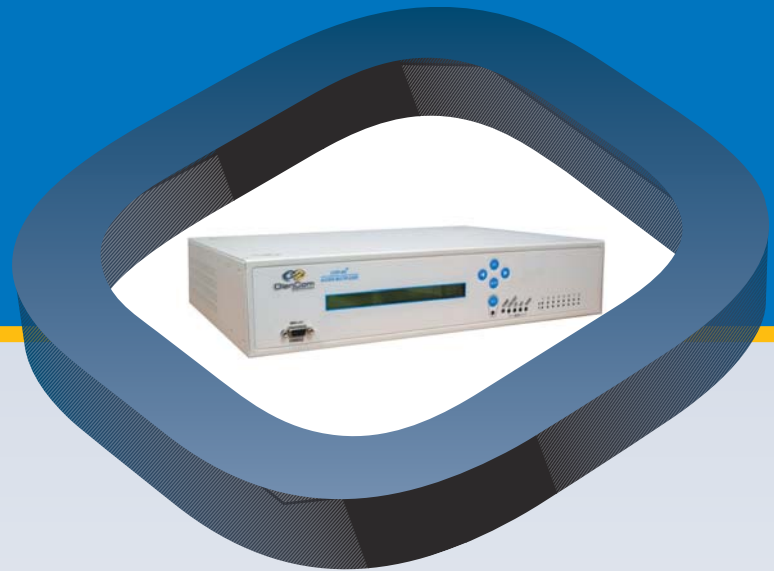
AMX-1341 supports local control and diagnostics by using 2-line by 40-character LCD display and keypads on the front panel, or by using a VT-100 terminal connected to the console port. AMX-1341 also supports Ethernet, SLIP, Telnet, and SNMP, so that it can be controlled and diagnosed from remote locations as well. Optional in-band management. In addition to the LCD display, there are one status LED for each U, MDSL interface, and 4 LEDs for the E1 line.

#### Application



#### Features

- ✓ 2 slots available for 2 plug-in types:
  - 8-port or 4-port ISDN U-interface plug-in
  - 3-port MDSL-interface plug-in
- ✓ Plug-in with E1 and Router
- ✓ Any combinations of n x 64 Kbps data streams can be multiplexed to fill an E1 or T1 line
- ✓ Optional Connection to LAN/WAN or host services
- ✓ Remote configuration and diagnostics
- ✓ Optional in-band 64-Kbps management
- ✓ 2-line by 40-character LCD and key pad for local administration, monitoring, and maintenance
- ✓ LED indicators for each port
- ✓ Single AC or DC plug-in modules



# AMX-1341

## Access Multiplexer

### Product Specification

#### Network Line Interface - E1

Line Rate	2.048 Mbps + 50 ppm
Line Code	AMI/ HDB3 (selectable)
Input Signal	ITU G.703 to-10dB
Output Signal	ITU G.703
Framing	ITU G.704
Connector	BNC/ RJ48C
Electrical	75 ohm Coax/120 ohm twisted pair
Jitter	ITU G.823

#### MDSL Line Interface

Up to 2 plug-in cards, with 3 MDSL interfaces per card.  
Full duplex with adaptive echo cancellation MDSL line coding  
Unconditioned 19-26 AWG twisted pair  
Line rate: 272, 400, 528, 784, 1168, 1552, 2320 for data rates  
n x 64 Kbps.  
max n for T1= 24, max n for E1= 31.

#### U Interface

Type	Full duplex with echo cancellation
Line Type	Unconditioned twisted pair 19-26 AWG
Line Rate	64 or 128 Kbps
Line Coding	2B1Q
Connector	RJ48C

#### E1 Interface with Router Port

##### • E1 Interface

Line Rate	2.048 Mbps + 50 ppm
Line Code	AMI/ HDB3 (selectable)
Input Signal	ITU G.703 to-10dB
Output Signal	ITU G.703
Framing	ITU G.704
Connector	BNC/ RJ48C
Electrical	75 ohm Coax/120 ohm twisted pair
Jitter	ITU .823

##### • Router Port

Number of ports	1
Physical Interface	10 BaseT x 1
Connector	RJ45
Routing Protocol	RIP-I, RIP-II
Data Rates	N x 64 Kbps, N = 1 to 31, 15,000 frames per second
Supporting Protocols	TCP/IP, PPP, HDLC
Management	VT-100, SNMP

#### Ethernet Interface (optional)

Connector	RJ45 in rear
Protocol	Telnet and Embedded SNMP

#### Front Panel

Keypad	4 operation keys plus AGO key
LED	1 per U/ MDSL/ V.35-interface, AGO, Power, SYNC/TEST, LOF, BPV, RAI/AIS
LCD	2 lines by 40 characters

#### Physical / Electrical

Dimensions	430 x 88 x 300 mm (W x H x D)
Power	100-240V, 50/60 Hz AC or Single -48V DC, 30 Watts
Temperature	0-50^
Humidity	0-95%RH (non-condensing)
Mounting	Desk-top stackable, 19" / 23" rack mountable

#### Clock Source

Internal, E1/T1 Line

#### Alarm Relay

Alarm Relay, Fuse alarm, and performance alarm

#### System configuration Parameters

Active Configuration, Stored Configuration, and Default Configuration (Stored in Non-volatile Memory)

#### Supervisor

RS232	VT-100 - front panel
10 Base-T	SNMP - rear panel SLIP - rear panel

In-band 64 Kbps

#### Performance Monitor

Performance Registers	Last 24 hours performance in 15 minutes interval and last 7 days in 24 hours summary
Separate Registers	12 MDSL ports, network, user, and remote site
Performance Reports	Reports include MDSL port unsync Date & Time, Errored Second, Unavailable Second, E1 Bursty Errored Second, Severe Errored Second, Degraded Minutes, and Controlled Slip Second. Also available in Statistics (%).
Alarm Queue	Containing 40 alarm records which record the latest alarm type, location, and date & time
Threshold	Bursty Seconds, Severely Errored Second, Degraded Minutes

#### Diagnostics Test Line

Loopback	E1/ T1 interface (Line Loopback, Payload Loopback, Local Loopback) MDSL interface (Payload Loopback, Local loopback) U interface (Local Loopback, Payload Loopback)
Test Pattern	E1/ T1 interface (215-1 PRBS, 3-in-24, 1-in-8, 2-in-8, 1:1 patterns) U/ MDSL/ DTE interface (211-1 BERT)

