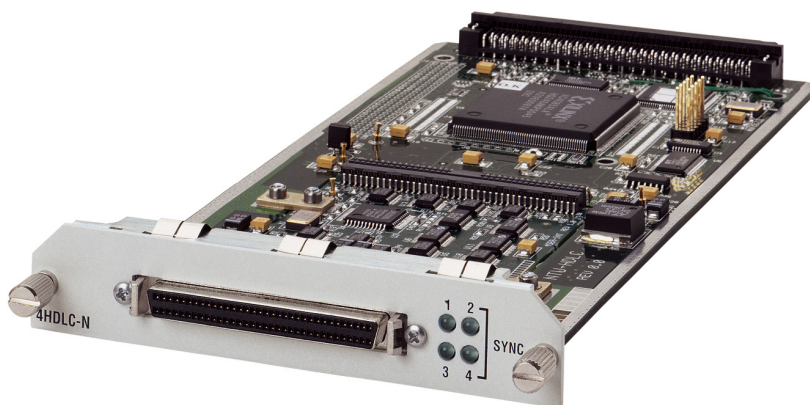


ACE-2002/2002E/202

# HDLC

Interworking Module



## HDLC Interworking over ATM

- Converts HDLC frames to AAL5 and vice-versa, regardless of the protocols carried over HDLC
- Four ports available with V.35, X.21 or RS-530 interfaces
- Frame size of up to 12 kbyte
- 56k and 60k rate resolutions

The HDLC module provides pass-through point-to-point connectivity over ATM networks, for up to four devices with HDLC outputs (see *Figure 1*). The module is used for smooth integration of routers or other data communication devices into ATM networks.

The module supports synchronous HDLC traffic at rates of up to 4.096 Mbps. The module is available with V.35, RS-530 or X.21 interfaces, operating in either DCE or DTE mode.

ACE-2002/2002E can be equipped with up to three HDLC modules, while ACE-202 can be equipped with one. Accordingly, up to 12 HDLC ports can be installed in ACE-2002/2002E, and up to 4 in ACE-202.

data communications

The Access Company

# HDLC

## Interworking Module

### Specifications

#### V.35 INTERFACE

##### Operation Mode

DCE: Requires adapter cable (octopus)

DTE: Requires cross-cable connected to an individual port of the octopus cable. The port must be set to DTE mode.

##### Supported Rates

56k resolution: Nx56 kbps, up to 1.544 Mbps or 3.088 Mbps

64k resolution: Nx64 kbps, up to 2.048 Mbps or 4.096 Mbps

##### Clock Polarity

User-selectable, depending on opposite device and cable length

##### Connector

V.35, female

##### Recommended Cable Length

Data rate  $\leq$  2.048 Mbps:  
60m (197 ft)

2.048 Mbps < Data rate  $\leq$  4.096 Mbps:  
40m (131 ft)

#### X.21 INTERFACE

##### Operation Mode

Same as V.35 (see above)

##### Supported Rates

Same as V.35 (see above)

##### Connector

15-pin, D-type, female

##### Recommended Cable Length

Same as V.35 (see above)

#### RS-530 INTERFACE

##### Operation Mode

Same as V.35

##### Supported Rates

56k resolution: N $\times$ 56 kbps,  
up to 1.544 Mbps

64k resolution: N $\times$ 64 kbps,  
up to 2.048 Mbps

##### Connector

25-pin, D-type, female

##### Recommended Cable Length

For all data rates: 60m (197 ft)

### Ordering

#### ACE-M/+

##### Legend

- + HDLC module type:
  - 4HDLC/V35** V.35 interface, supporting 4 ports
  - 4HDLC/X21** X.21 interface, supporting 4 ports
  - 4HDLC/RS530** RS-530 interface, supporting 4 ports

#### SUPPLIED ACCESSORIES

For DCE mode, the module is supplied with an octopus cable, which provides 4 DCE ports. For DTE mode, a cross-cable should be ordered separately.

#### OPTIONAL ACCESSORIES

##### CBL-X.21-DTE/HDLC

X.21 cross-cable for DTE mode

##### CBL-RS-530-DTE/HDLC

RS-530 cross-cable for DTE mode

##### CBL-V.35-DTE/HDLC

V.35 cross-cable for DTE mode

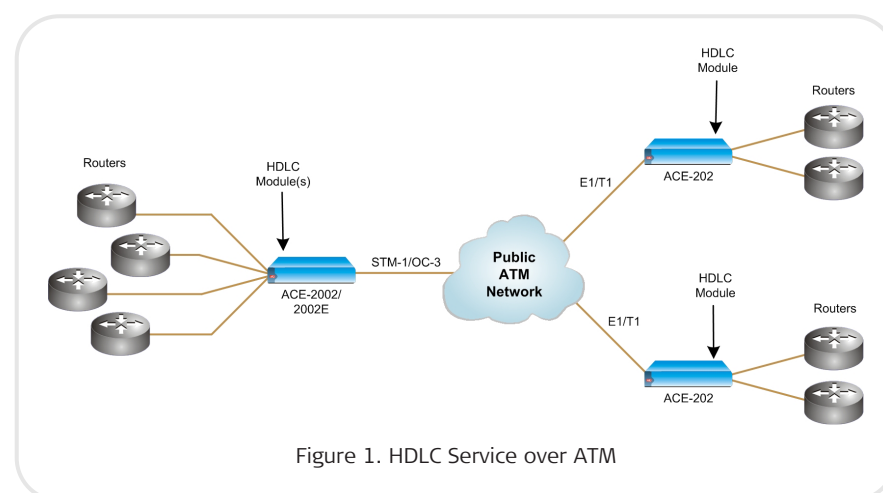


Figure 1. HDLC Service over ATM

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