

ASMi-31CQ



Synchronous 2-wire Manageable IDSL Quad Modem Card



FEATURES

- Four independent IDSL modems, on one card, with transmission rates of 64 or 128 kbps
- Full duplex transmission over 2-wire twisted pairs
- Modular digital interfaces include: V.24, V.35, X.21, or RS-530 via adapter cable
- Remote power feeding option for repeaters

DESCRIPTION

- The ASMi-31CQ card includes four independent IDSL synchronous modems. The four modems operate in full duplex over unconditioned lines at two selectable data rates: 64 or 128 kbps, providing a transmission range of up to 8 km/5 miles.
- Transmit and receive timing can be provided internally, or derived externally from the data terminal or LRS-24 system source.
- The ASMi-31CQ quad modem card is intended for use in the LRS-24 19-inch modem rack. The rack can support up to 12 cards (providing 48 modems).
- ASMi-31CQ can be managed from an ASCII terminal or via an SNMP UNIX station connected to the rack. RADview, an SNMP application, is available for managing the ASMi-31CQ cards as well as other RAD products. RADview enables management of a large number of links, system infrastructure, and presentation of statistical information on link availability. It is a user-friendly system providing a graphical presentation of all network elements.
- ASMi-31CQ works opposite ASMi-31-2 only.

- ASMi-31CQ allows downloading of software versions from the LRS-24 CM-2 card to the modem.
- Two interface modules are used for the line and digital interface connections:
 - LRSI-F-18 for V.24, V.35, X.21, and RS-530 (providing four RJ-11 connectors)
 - LRSI-F-19 for V.24, V.35, X.21, and RS-530 (providing four terminal block connectors).
- Diagnostic capabilities for each modem comply with ITU V.54, and feature local analog loopback as well as local and remote digital loopback. Loopbacks can be managed by ASCII terminal or RADview. The modem includes internal 511-bit pseudo random pattern generator and BER tester for complete end-to-end integrity testing. The BER test results are visible on the Alarm indicators triggered by each bit detected.

Note: The BER option works for one port at a time.

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- Line protection is provided using isolation transformers and protective circuitry. This protects ASMi-31CQ from line hazards such as AC or DC overvoltages.
- The card has a special ordering option for remote power feeding of repeaters: ASMi-31CQ/P. With this option, the internal phantom power supply provides power for one or two repeaters. The DC power source for providing the phantom feed can be the LRS-PS-FEED unit (see *Ordering*).

SPECIFICATIONS

LINE INTERFACE

- Data Rates**
64 or 128 kbps
- Return Loss**
1 kHz = 0 dB
10 kHz to 25 kHz = 20 dB
250 kHz = 0 dB
- Line Type**
Two-wire full duplex twisted pair
- Connectors**
 - RJ-11
 - Terminal block

DIGITAL INTERFACE

- Type**
V.24, V.35, X.21, RS-530, via adapter cable
- Data Rates**
64 or 128 kbps, user-selectable
- Interface Modules**
 - LRSI-F-18 (providing four RJ-11 connectors)
 - LRSI-F-19 (providing four terminal block connectors)

APPLICATION

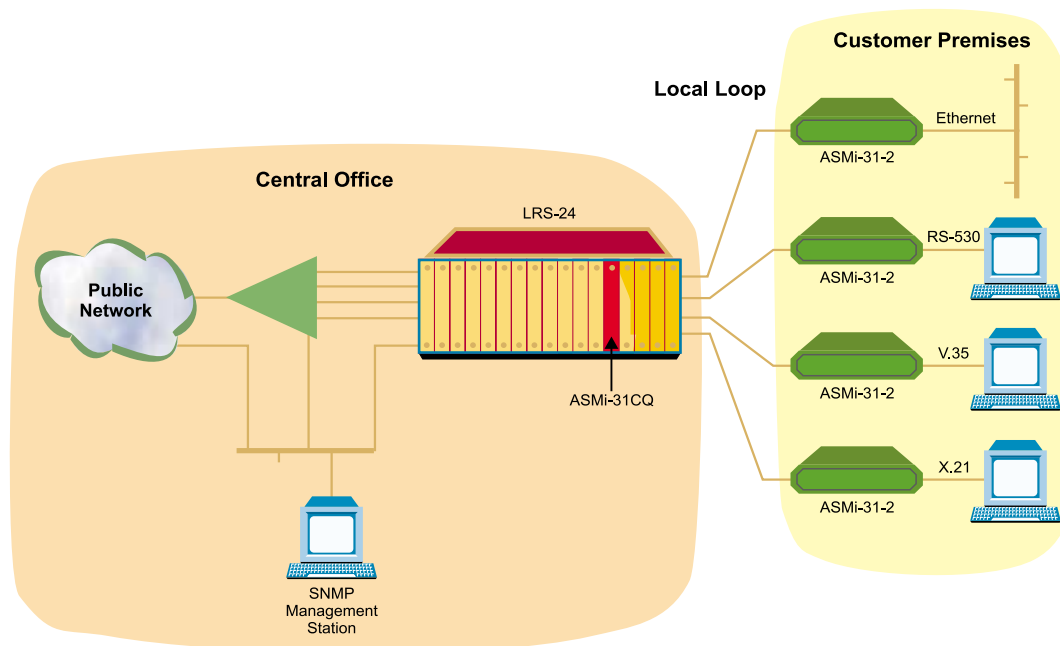


Figure 1. ASMi-31CQ Operating with Four ASMi-31-2 Standalone Modems

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GENERAL

• Timing Elements

Transmit and receive clock derived from three alternative sources:

- Internal oscillator
- External from DTE
- System clock derived from LRS-24 system clock.

The remote unit is configured to LBT timing mode.

Note: One source synchronizes the ASMi-31CQ system clock at a time.

• Indicators

POWER	green	ON when unit is powered
DATA	yellow	ON when data is transmitted or received
TST	red	ON when unit operates in any of the test modes
ALM	red	ON when internal BER tester detects an error in received data, or sync loss in BER test
SYNC	red	ON when synchronization is lost between the two modems
	green	ON when line achieves synchronization

• Physical

Fits dimensions of LRS-24 rack
Weight: 377g

• Power Supply

Provided by LRS-24
Voltage: $\pm 5V$
Power consumption: 3.5W max.

• Environment

Temperature: $0^{\circ}-50^{\circ}C/32^{\circ}-122^{\circ}F$
Humidity: up to 90%, non-condensing

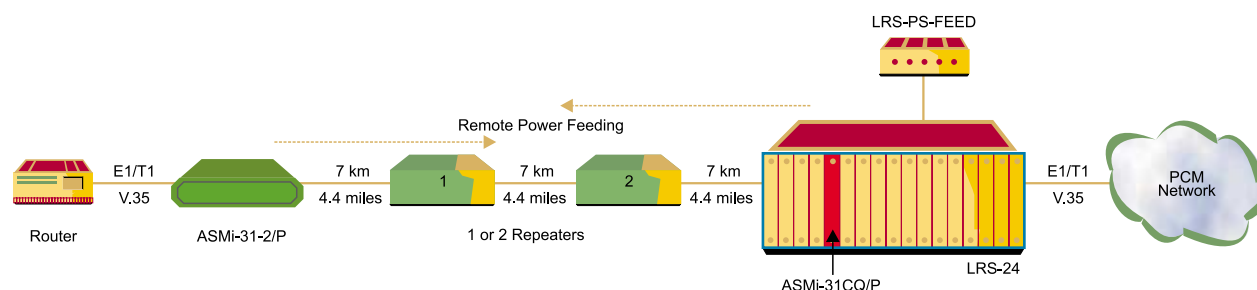


Figure 2. Extended Digital Network Access Using Repeaters

ASMi-31CQ

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ORDERING

ASMi-31CQB/#, ASMi-31CQF/#

Sync 2-wire IDSL Quad Modem Card
for the LRS-24 rack

ASMi-31CQB/#/P, ASMi-31CQF/#/P

Sync 2-wire IDSL Quad Modem Card
for the LRS-24 rack, with remote
power feeding

Specify digital interface:

V24 for V.24

V35 for V.35

X21 for X.21

530 for RS-530

LRS-PS-FEED

Power supply standalone unit for
remote power feeding via LRS-24.
Provides DC power source for the
remote unit

U-RPT*/#

IDSL Repeater



data communications

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