

The OM-10c

RS232D SYNCH / ASYNCH FIBRE OPTIC UNIVERSAL MODEM WITH INTEGRATED PROTOCOL CONVERTOR



The OM-10C fibre optic modem transmits RS-232D data in synchronous or asynchronous format over optical fibres. The modem is fully transparent to all data at rates up to 19.2 Kbd automatically adjusting between data rates without the need for separate switch selection. The OM10c is also protocol transparent.

The OM10c is also supplied with an integrated protocol converter that converts from synchronous to asynchronous communication (and vice versa). A simple switch selects either conversion enable or disable dependent on where in the link the conversion is required.

The OM-10c passes two data and one handshake line across the link. Typically one of the data channels is used for clock. This modem is also available in a 3U 19" rack mount card.

FEATURES

- * Single mode or Multi mode fibre
- * Excellent link margin
- * Synch / asynch RS-232D
- * Data, clock, and handshake line
- * DC to 19.2K baud
- * Wide operating temperature
- * EMI/RFI immune
- * Low power consumption
- * Synch to asynch conversion
- * LED indicators Optical Link Tx, Rx, Power

APPLICATIONS

- * Computer to computer
- * Computer to printer
- * Computer to encrypter
- * Server to PC links
- * Computer to controller

SPECIFICATIONS

OPTICAL

Optical Connectors

ST

Standard unit

Light source

850 nm LED

Photo Detector

PIN - Si

Optical output (62.5/125 multi mode fibre)

-18 dBm min.

Optical input (62.5/125 multi mode fibre)

-33 dBm min.

Operating distance (>10⁻⁹ BER)

Multi mode fibre (3 dB loss/km +3dB overhead)

4 Km

Single mode fibre (2 dB loss/km +3dB overhead)

14 Km

Extended range unit

Light source

1300 nm E-LED

Photo Detector

PIN - InGaAs

Optical output (9/125 single mode fibre)

-20 dBm min.

Operating distance (>10⁻⁹ BER)

Single mode fibre (0.6 dB loss/km +3dB overhead)

41 Km

ELECTRICAL

Data I/O levels

RS-232D synch and
asynch

Data I/O connector

DB25S (female)

Data rate (each channel)

transparent 0-19.2 kBd

Power Source

6 VDC Power cube

Power consumption

< 2 W

GENERAL

Operating Temperature

-5 C to + 70 C

Humidity (RH)

10% to 95%

Dimensions

6.5cm*9.0cm*1.5cm

Weight

80 gm

MTBF

60,000 hrs

Part number: OM10c

standard version

OM10c-ELED

extended range version

The ROM-10SM

The ROM-10SM fibre optic modem is a rack mount version of the OM-10c modem. It fits in Optilan's 3U high 19" rack. The three unit high rack can have redundant power supplies for reliability.

SPECIFICATIONS

OPTICAL

Same as OM-10c.

ELECTRICAL

Data I/O

Same as the OM-10c.

Power Source

Rack mount power supply.

Two can be used for

redundancy.

Power consumption

< 60 W - fully loaded

rack.

GENERAL

Operating Temperature

-5 C to + 70 C

Humidity (RH)

10% to 95%

Dimensions

5.25" hi x 7" deep x 19"

Weight

< 5 kgm

Part numbers:

ROM10c

Universal modem standard card

ROM10c-ELED

Universal modem extended range card

RMF-30B

3U high rack

PSU-1

Universal power supply