oplink Communications LTD.

OPM 192
IR Data Modem
Asynchronuous RS-232, [OPM 192]
Up to 19.2 KBps

Features:

* Transparent point-to-point or point-to-multi point
  data communication
* Full duplex
* Low power consumption
* Excellent for indoor/outdoor data collection
  applications
* Wireless access to wired networks
* Slim dimensions and lightweight
* Low priced
* High immunity to RF and light source noise
  interference
* No risk of external information leakage

Description:

Oplink's model OPM 192 is a state of the art off-air Infra-Red data modem. The OPM 192 is an asynchronuous transparent full duplex RS-232 serial data modern capable of data rates of up to 19.2 KBPS.

When used for indoor applications, the model OPM 192 does not require a line of sight in order to maintain a satisfactory communication link. When used for outdoor applications, a line of sight is required.

The OPM 192 electronic and mechanical design feature high immunity to external RF noise interference. These qualities combined with the unit's innovative assembly results in an ideal solution for an off-air data link in locations subject to RF radiation such as laboratories, computer rooms, engine rooms and even for security and military applications.

The model OPM 192 is the ideal solution for computer data communication within the office, such as from a PC computer to another computer, printer, plotter or other peripheral. The need for rigid and non-flexible cable installation is eliminated.
Full duplex implementation:

This feature is achieved thanks to the existence of two independent communication channels.

There are two types of OPM 192 units, namely: OPM 192 - A and OPM 192 - B. The Tx of Type A with the Rx of Type B constitute one channel.

The Tx of Type B with the Rx of Type A constitute the second channel.

Each channel is modulated and demodulated independently and there is no cross- talk between channels.

Therefore in order to make a link Type A can communicate only with a type B unit and viceversa.

The rest of the specifications are identical for OPM 192 A and OPM 192 B

Specifications:

Data Format	RS232, Serial, Asynchronuous, Full Duplex
Data Rates	300 BPS to 19,200 BPS
Infra Red Wavelength	850 nm.
Distance for Perfect Data Communication	
- With Line of Sight	50 Meters
- Without Line of Sight	15 Meters
RS 232 Protocol	Xon/Xoff, DTR/DSR, RTS/CTS
BER (Bit Error Rate)	1 E-9 *
Connectors:	
RS 232	25 pin D-Type (on back panel)
DC Input	Standard 12 VDC Jack (on back panel)
Switches:	
Flow Control	4 position DIP switch (on back Panel) Xon/Xoff, DTR/DSR, RTS/CTS panel)
Power Consumption	12 VDC - 300 mA
Dimensions	L=160mm, W=100mm, H=38mm
Weight	320 g.
LED Indicators	Power (green), Rx (red), Tx (red), On Line (green)
Options:	
PS220	220 VAC, 50 HZ / 12 VDC Power Supply
PS110	110 VAC, 60 HZ / 12 VDC Power Supply

* At up to 70% of maximum range.
** For other preset setting, please consult your dealer.
All specifications are subject to chance without notice.