



## IOC5232TX / IOC5232RX RS-232 Over Single Mode Fiber



### FEATURES

#### IOC5232TX:

- ◇ RS-232 input / fiber optic output
- ◇ DCE compatible interface
- ◇ Plugs into DTE pin for pin
- ◇ Single mode SC fiber
- ◇ Rate 192 Kbps
- ◇ DB9P connector
- Signals supported:
  - ◇ Carrier detect
  - ◇ Receive data
  - ◇ Data set ready
  - ◇ Clear to send
  - ◇ Ring indicator
  - ◇ Transmit ready
  - ◇ Data terminal ready
  - ◇ Request to send

#### IOC5232RX:

- ◇ RS-232 input / fiber optic output
- ◇ DTE compatible interface
- ◇ Plugs into DCE pin for pin
- ◇ Single mode SC fiber
- ◇ Rate 192 Kbps
- ◇ DB9P connector
- Signals supported:
  - ◇ Carrier detect
  - ◇ Receive data
  - ◇ Data set ready
  - ◇ Clear to send
  - ◇ Ring indicator
  - ◇ Transmit ready
  - ◇ Data terminal ready
  - ◇ Request to send

### OVERVIEW

The IOC5232 module set is capable of delivering the RS-232 standard across two single mode fiber optic cables. The system should be viewed as a long cable which has a near end and a far end.

The IOC5232 TX module provides a DTE compatible interface (looks and acts like a PC RS-232 port). It provides signals to DCE equipment that originated on the IOC5232 RX side of the link. This module will reside at a DCE device considered the far end of the system.

The IOC5232 RX module provides a DCE compatible interface. It provides signals to DTE equipment that originated on the IOC5232 TX side of the link. This module will reside at a DTE device considered the near end of the system.

The IOC5232 module set supports all applicable RS-232 signals including: carrier detect, receive data, data set ready, clear to send, ring indicator, transmit ready, data terminal ready, request to send. These modules operate at a baud rate of 192 Kbps.

**RS-232 PINOUTS**

<u>PIN</u>	<u>SIGNAL</u>	<u>IN / OUT</u>	<u>DESCRIPTION</u>
1	DCD	IN	Data Carrier Detect
2	RxD	IN	Receive Data
3	TxD	OUT	Transmit Data
4	DTR	OUT	Data Terminal Ready
5	GND	-	Ground
6	DSR	IN	Data Set Ready
7	RTS	OUT	Request to Send
8	CTS	IN	Clear to Send
9	RI	IN	Ring Indicator

**SPECIFICATIONS**GENERAL

Model 2073 Pluggable Interface Module  
Single-mode SC fiber

ELECTRICAL I/O TYPE

RS232 on a DB9 connector  
192 Kbaud

OPTICAL SIGNAL I/O

SC—Single-mode (1310 nm wavelength)

ENVIRONMENTAL

- Operating temperature: 0° to 50° C
- Relative humidity: 15% to 95%; non-condensing
- Altitude: Sea level to 10,000 feet

POWER

- +5V input / 5.5 watts

MEAN TIME BETWEEN FAILURES

- ~ 100,000 hours