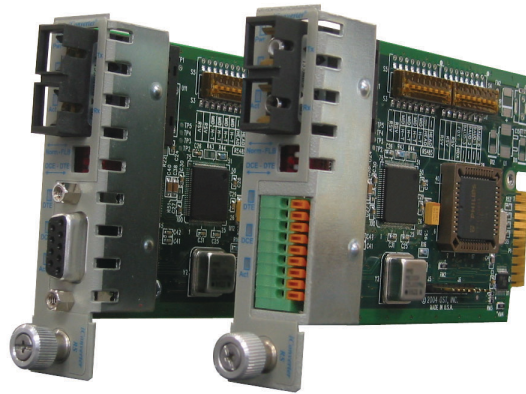


iConverter® RS422/485 Manageable Serial RS-422 and RS-485 to Fiber Media Converter



FEATURES

- Manageable Serial RS-422 and RS-485 to Fiber Media converter with automatic Full-Duplex baud rate detection
- Supports baud rates ranging from 110 to 921,600 baud
- Supports multi-mode, single-mode and single-fiber with ST, SC, LC and MT-RJ connector options
- Supports distances up to 5km on multimode and 120km on single-mode
- Supports DB-9 and Terminal Block connector options for serial interface
- DIP-switch configuration of DTE or DCE devices for easy connection to serial devices
- Features built-in configurable terminators
- Features configurable baud rate for Half-Duplex RS-485 operation
- Supports RTS, and CTS controls
- Features remote fiber loop-back switch for easy testing of fiber link, even during serial transmission
- Remote configuration via SNMP, Telnet or console serial port
- SNMP management via *NetOutlook*™ provides real-time port and module information, remote parameter configuration and trap notification
- Modules are hot-swappable in 19-Module, 5-Module, 2-Module or 1-Module chassis
- Lifetime warranty and free 24/7 technical support

DESCRIPTION

The Omnitron *iConverter*® RS422/485 is a manageable serial RS-422 and RS-485 to fiber converter that transmits serial protocol over fiber media. Fiber transmission extends serial signals up to 120km, and is immune from electrical and magnetic interference.

The RS422/485 is available with a single-mode, multimode or single fiber transceiver. The serial port interface is available with either a DB-9 female connector or terminal block connector for field wiring.

The RS422/485 automatically detects the signal baud rate of connected Full-Duplex serial device, ranging from 110 to 921,600 baud. It also automatically adjusts to changes in the connected device's Full-Duplex baud rate during operation without reconfiguration or interruption of service.

Half-Duplex RS-485 operation is supported via a configurable baud rate DIP-switch to match the master/slave communication timing.

Connection to DTE or DCE devices is configured by an easily accessible DIP-switch on the front-panel. This feature eliminates the need to use specific serial cable for each type of device.

A built-in remote Fiber Loop-Back DIP-switch provides easy validation of the entire fiber segment without interrupting fiber operations.

Integrated configurable terminators support RS-422 and RS-485 operations, allowing the unit to be deployed at any node in the serial line.

The RS422/485 is a member of the *iConverter* product family, and is designed to work in any *iConverter* chassis. When installed in a chassis, the RS422/485 can be remotely monitored and managed by software control. The *iConverter* 19-Module, 5-Module and 2-Module chassis all support the software

control feature. The 1-Module chassis supports RS422/485 as a standalone serial to fiber converter.

MANAGEMENT SYSTEM

Management is accomplished via an *iConverter* Network Management Module (NMM) or an *iConverter* module with integrated management, such as the 10/100M managed media converter. The management module must be installed in the same chassis as the RS422/485. Management is remotely accessed via Telnet or through Omnitron's *NetOutlook*™ SNMP-based management or any other SNMP software. The management software provides real-time fiber status, remote parameter configuration and trap notification.

Some of the RS422/485 parameters that can be monitored include fiber link status, module's model and description, hardware and

software revisions, serial number and a user-defined identifier.

Remote configuration of the RS422/485 module enables DTE or DCE selection and Fiber Loop-Feedback test, and is capable of overriding physical DIP-switch settings that control baud rate and Duplex mode. In case of power removal, the configuration can be reloaded from the management module provided that the management's "Soft Reload" option is enabled.

The RS422/485 supports the launching of SNMP trap notifications for events such as module insertion and removal, fiber port link-up and link-down, and hardware or software configuration changes. Trap monitoring of specific events can be selectively enabled or disabled by the network administrator. Please refer to the management module and *NetOutlook* data sheets and user manuals for additional trap configuration information.

MODULE SPECIFICATIONS

Model Type	Protocols	Copper Connector	Controls	LED Displays	Dimensions	Weight	Compliance	Power Requirement	Temperature -Operating -Storage	Altitude	MTBF(hrs)
RS422/485	Serial RS-422 Serial RS-485	DB-9 Female or Terminal Block	DTE/DCE, Fiber Loop-Back	Pwr, Tst, Fiber Lnk/Act, DTE, DCE, Serial Act	W: 0.85" x D: 4.5" x H: 2.8"	8 oz.	UL, CE, FCC Class A	3.3VDC / 1.0 A	0 to 55 C -50 to 80 C	0-10,000ft	850,000

ORDERING INFORMATION

Fiber Type / Dual Fiber [DF] or Single-Fiber [SF]	Distance	Connector Types				Tx Lambda [nm]	Rx Lambda [nm]	Min. Tx Power [dBm]	Max. Tx Power [dBm]	Min. Rx Sense [dBm]	Max. Rx Power [dBm]	Link Budget
		ST	SC	MT-RJ	LC							
MM/DF	5km	8780-0	8782-0	8784-0	-	1310	1310	-24	-14	-31	-14	7
SM/DF	30km	8781-1	8783-1	8785-1	8787-1	1310	1310	-15	-8	-31	-5	16
SM/DF	60km	8781-2	8783-2	-	8787-2	1310	1310	-5	0	-31	-3*	26
SM/DF	120km	-	8783-3	-	8787-3	1550	1550	-5	0	-31	-3*	26
SM/SF	20km	-	8790-1	-	-	1310	1550	-15	-5	-30	-3	15
SM/SF	40km	-	8790-2	-	-	1310	1550	-8	0	-30	-3*	22
SM/SF	20km	-	8791-1	-	-	1550	1310	-15	-5	-30	-3	15
SM/SF	40km	-	8791-2	-	-	1550	1310	-8	0	-30	-3*	22

When ordering module with terminal block serial port, append 'T' before the dash '-' in the part number. Examples: 8780T-0, 8783T-3, 8790T-1

* Note: When using these models in pairs, a minimum attenuation of 3db is required

CHASSIS OPTIONS

Configuration	19-Module		5-Module		2-Module		1-Module	
	AC	DC	AC	DC	AC	DC	US	Universal
One [1] Power Supply	8200-1	8205-1	8220-1	8225-1	8230-0	8235-0	8240-1	8240-2
Two [2] Power Supply	8200-2	8205-2	8220-2	8225-2	-	-	-	-
Three [3] Power Supply	8200-3	8205-3	-	-	-	-	-	-
Lost Power Trap Support	-	-	-	-	8230-1	8235-1	-	-
Spare Power Supply	8200-9	8205-9	8220-9	8225-9	-	-	-	-
23" Rack Mounting Kit	8091-2	8091-2	8092-2	8092-2	-	-	-	-
Blank Module Panel	8090-1	8090-1	8090-1	8090-1	8090-1	8090-1	-	-
Wall Mounting Hardware Kit	-	-	-	-	8249-0	8249-0	8249-0	8249-0
DIN Rail Mounting Kit	-	-	-	-	-	-	8250-0	8250-0

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