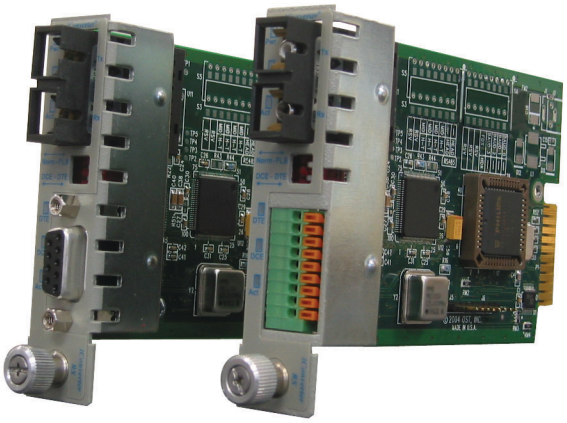
Omnitron Systems Technology, Inc.

iConverter® RS232

Manageable Serial RS-232 to Fiber Media Converter



FEATURES

- Manageable Serial RS-232 to Fiber Media converter with automatic 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 multi-mode and 120km on single-mode
- Supports DB-9 and Terminal Block connector options for serial RS-232 interface
- DIP-switch configuration of DTE or DCE device for easy connection to serial devices
- Supports RTS, CTS, DCD, DTR and DSR 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*® RS232 is a manageable serial RS-232 to fiber converter that transmits serial protocol over fiber media. Fiber transmission extends the serial signals up to 120km, and is immune from electrical and magnetic interference.

The RS232 is available with a single-mode or multi-mode fiber transceiver, in single fiber or dual fiber. The serial port interface is available with either a DB-9 female connector or terminal block connector for field wiring.

The RS232 automatically detects the signal baud rate of the connected serial device, ranging from 110 to 921,600 baud. It also automatically adjusts to changes in the connected device's baud rate during operation without reconfiguration or interruption of service.

Connection to DTE or DCE devices is configured by an easily accessible DIP-switch on the front-panel of the module. This feature eliminates the need to use a null-modem cable when connecting two serial devices of the same type.

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

The RS232 is a member of the *iConverter* product family, and is designed to work in any *iConverter* chassis. When installed in a chassis, the RS232 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 RS232 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 RS232. 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 RS232 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 RS232 module enables DTE or DCE selection and Fiber Loop-Back test, and is capable of overriding of physical DIP-switch settings. 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 RS232 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)
RS232	Serial RS-232	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	8760-0	8762-0	8764-0	-	1310	1310	-24	-14	-31	-14	7
SM/DF	30km	8761-1	8763-1	8765-1	8767-1	1310	1310	-15	-8	-31	-5	16
SM/DF	60km	8761-2	8763-2	-	8767-2	1310	1310	-5	0	-31	-3*	26
SM/DF	120km	-	8763-3	-	8767-3	1550	1550	-5	0	-31	-3*	26
SM/SF	20km	-	8770-1	-	-	1310	1550	-15	-5	-30	-3	15
SM/SF	40km	-	8770-2	-	-	1310	1550	-8	0	-30	-3*	22
SM/SF	20km	-	8771-1	-	-	1550	1310	-15	-5	-30	-3	15
SM/SF	40km	-	8771-2	-	-	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: 8760T-0, 8763T-3, 8770T-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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