ALLOY

RC-2002

CONVERTER

Managed Media Converter

The RC-2002xx series of Managed Media Converters is designed for conversion between 10/100Base-TX and 100Base-FX Fast Ethernet. With eleven models in the series, a wide range of options are available to support MultiMode and Singlemode cable segments, in ST or SC termination. In addition, WDM (Wave Division Multiplexing) models support network connectivity over one core of SingleMode fibre, rather than the usual utilisation of separate send and receive paired cores.

The Converters support various remote monitoring and maintenance features including: Web based (HTTP), Telnet management for CLI applications and Local RS-232 Console connectivity. An integrated SNMP Agent can also provide mission critical alert information via SNMP Traps, any standard SMTP email server, or via SMS notification services. Trap events can be customised to suit your particular corporate needs.

For FTTH/FTTX (Fibre to The Home and Fibre To Anywhere) applications the RC-2002SC can be used to manage data throughput with the device's "Rate Control" function - in this way bandwidth can be allocated in 1Mbps increments. Rate control enables delivery of guaranteed Customer Service Levels down to the CPE (Customer Premises Equipment) end point.

The RC-2002xx series supports cable ranges up to 60 kilometres. All models share a rich feature set, including case intrusion, power voltage and temperature detection, external loop-back capability, broadcast storm filtering, detection of single fibre disconnection, user login management, TFTP on-line upgrade, and many other features.

Note: WDM models must be used as a pair: ie - RC-2002SCS5.S20 must be used with RC-2002SCS3.S20 (or equivalent WDM device)

KEY FEATURES

- ✓ One 10/100M UTP port and One Fibre Port
- ✓ Embeds management information in the bit stream
- ✓ DB-9 RS-232 console port
- ✓ Intrusion, temperature and voltage monitor
- ✓ External loop-back capability
- ✓ External Power adapter
- ✓ SNMP:Web & Telnet interface with in-band management
- ✓ Programmable trap and alarm settings
- ✓ SNMP Traps and Alarm can be issued by email and Mobile phone short message

- ✓ Supports trap log if disconnected
- ✓ Supports MIB-II, Private MIB, DHCP Client, ICMP
- ✓ Supports broadcast storm filtering
- ✓ Supports the detection of single fibre disconnection
- ✓ Supports Bandwidth rating management, 1Mbps per step
- ✓ Supports port enabled/disabled
- ✓ Supports user login management
- ✓ Supports TFTP for on-line upgrade and ping Specification

On-line brochures available for related products: http://www.alloy.com.au/Resource.asp
*Unmanaged Switches *Converters *Network Adapters *Fibre Optic Networking *and much more*

TECHNICAL SPECIFICATIONS

Ports:	One 10/100M RJ-45 UTP port, One 100M fiber port with MM/SM, SC
Compliance:	IEEE802.3, IEEE802.3u, IEEE802.3x
Console Port:	DB9 console port
Flash:	4M Bytes
CPU Main Memory:	16M Bytes
MAC Address:	2K
Packet Buffer Memory:	Up to 48K
Flow Control:	Back pressure for half duplex, IEEE802.3x for full duplex
Transmission Rate	Data Rate: 100Mbps half duplex (Fast Ethernet)/200Mbps full duplex (Fast Ethernet) 10Mbps half duplex (Ethernet)/20Mbps full duplex (Ethernet) Latency: <9μs (100Mbps input)/<59μs (10Mbps input)
LED Display:	TP Port: Link/Activity; Speed(10/100Mbps); FDX/Col Fibre Port: Link/Activity/Speed(100Mbps); FDX/Col; Device Power
Emissions:	C-Tick, FCC Part 15,Class A, CE mark
Management Support:	
Management Interface:	In-Band:Web-Based,Telnet Out-Band:RS 232
SNMP Management Agent:	MIB II (RFC 1213) Private MIB
Software Upgrade:	TFTP
Port Interface	
Twisted-Pair	
Connector:	Shielded/Unshielded RJ-45, 8-pin jack
Impedance:	100 Ohms nominal
Signal Level Output (differential):	0.95 to 1.05V (100Base-TX)
Signal Level Input:	350mV minimum (100Base-TX)
Supported Link Length: 100m	
Cable Type:	(10Mbps segments):Category 3, 4 or 5 UTP(100M) (100Mbps segments):Category 5 UTP(100M)
Multi-mode Fibre Optic	
Connector:	ST,SC,MT-RJ,VF45
Wavelength:	1310nm
RX Input Sensitivity:	-31dBm maximum
Output Power:	-14dbm to –23.5dbm (50/125m) -14dbm to –20dbm (62.5/125m)
Supported Link Length:	up to 2Km full duplex
Cable Type:	50/125,62.5/125,100/140μm F/O
Single-mode Fibre Optic	
Connector:	SC
Wavelength:	1310nm
RX Input Sensitivity:	-31dBm maximum
Output Power:	-8dbm to –15dbm (9/125m)
Supported Link Length:	up to 20Km in full duplex mode
Cable Type:	9/125μm F/O (recommended)