

Managed Media Conversion

The CR-1600 is a specially designed chassis to accommodate Alloy slide-in converters. With a high-density design, the chassis can host up to 16 media converters within the one 19 inch rackmount chassis and provide full power redundancy (depending on model). Converters can be hot swapped into and out of the chassis as needed, eliminating any downtime when installing additional converted network segments. The converters are fully compliant with IEEE multi-protocol standards, including 10Base-T/2/FL, 100Base-TX/FX, 1000Base-SX, and ATM protocols.

The CR-1600 provides solutions for users to best manage media converters. As converters connect directly to the chassis mainboard, no power cable or wiring is required. Moreover, a redundant power supply (depending on model) is offered to cope with any accidental breakdown or interruption of power.

Various models within the CR-1600 family also support smart management. This enables remote monitoring of installed converters, link and power status as well as chassis power supply status and operating temperature. If a critical link fails, the CR-1600 can automatically email your network administrator, or an SNMP Trap can be sent to notify your enterprise management system of a problem.



Add long distance support to serial communications. Media conversion from RS-232/422/485 serial to ST multi-mode or Single-Mode Fibre. Support speeds up to 115Kbps for RS-232 and up to 500Kbps for RS-422/485.



Conversion of Gigabit Fibre 1000Base-SX to 1000Base-LX. Fibre SX Shortwave conversion to LX Longwave. Requires two chassis Slots.

CR-1600 chassis



The CR-1600 family of chassis are a slim 2 rack units high. They support up to 16 hot swappable media conversion modules in various formats. Power supply options include single or redundant power configurations at 240VAC or 48VDC. Intelligent management features are included on certain models to ensure maximum uptime of your network.



Conversion of Gigabit 1000Base-T to 1000Base-SX/LX. SX shortwave and LX longwave models. Max distance = 50km for 1000Base-LX. GM-302 Requires two CR-1600 Slots.



Conversion of Nway 10/100Base-TX to Single Fibre (SC). Wavelength Division Multiplexing (WDM) technology. Full and half duplex modes supported. Single Mode models for 20,40 or 60Km max distance.

For full module range and technical details, please see overleaf.

On-line brochures available for related products: <http://www.alloy.com.au/Resource.asp>

*Managed Switches *Converters *Network Adapters *Fibre Optic Networking and much more

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Type	Model	Media		Speed (Mbps)		Connector		Max Distance	Wavelength (nm)	Min TX Output (dBm)	Sensitivity (dBm)
		From	To	From	To	From	To				
Gigabit	GM-C301	UTP	MM	1000	1000	RJ45	SC	550m**	850	-10	-17
	GM-C301.S	UTP	SM	1000	1000	RJ45	SC	5Km	1310	-13	-20
	GM-C301.S50	UTP	SM	1000	1000	RJ45	SC	50Km	1550	-3	-23
	GM-C302	UTP	MM	10/100/1000	1000	RJ45	SC	220m	850	-10	-17
	GM-C302.S	UTP	SM Fibre	10/100/1000	1000	RJ45	SC	5Km	1310	-13	-20
	GM-C302.S50	UTP	SM Fibre	10/100/1000	1000	RJ45	SC	50Km	1550	-3	-23
	GM-C303.S30	MM Fibre	SM Fibre	1000	1000	SC	SC	550m**	1310	MM:-10	MM:-17
								30Km	1310	SM:-6	SM:-24
Fast Ethernet	GM-C303.S80	MM Fibre	SM Fibre	1000	1000	SC	SC	550m**	1310	MM:-10	MM:-17
								80Km	1550	SM:-4	SM:-25
	EM-C357S3.S20*	UTP	Singe Strand SM Fibre	100	100	RJ45	Single SC	20Km	TX:1310 RX:1550	-15	-32
	EM-C357S5.S20*	UTP	Singe Strand SM Fibre	100	100	RJ45	Single SC	20Km	TX:1550 RX:1310	-15	-32
	EM-C357S3.S40*	UTP	Singe Strand SM Fibre	100	100	RJ45	Single SC	40Km	TX:1310 RX:1550	-10	-32
	EM-C357S5.S40*	UTP	Singe Strand SM Fibre	100	100	RJ45	Single SC	40Km	TX:1550 RX:1310	-10	-32
	EM-C357S3.S60*	UTP	Singe Strand SM Fibre	100	100	RJ45	Single SC	60Km	TX:1310 RX:1550	-6	-34
	EM-C357S5.S60*	UTP	Singe Strand SM Fibre	100	100	RJ45	Single SC	60Km	TX:1550 RX:1310	-6	-34
	EM-C107SC	UTP	MM Fibre	100	100	RJ45	SC	2Km	1310	-19	-30
	EM-C107ST	UTP	MM Fibre	100	100	RJ45	ST	2Km	1310	-19	-30
	EM-C107MT	UTP	MM Fibre	100	100	RJ45	MTRJ	2Km	1310	-19	-30
	EM-C107.S20	UTP	SM Fibre	100	100	RJ45	SC	20Km	1310	-15	-31
	EM-C107.S40	UTP	SM Fibre	100	100	RJ45	SC	40Km	1310	-8	-34
	EM-C107.S60	UTP	SM Fibre	100	100	RJ45	SC	60Km	1310	-5	-34
	EM-C120SC	UTP	MM Fibre	100	100	RJ45	SC	2Km	1310	-19	-30
	EM-C120ST	UTP	MM Fibre	100	100	RJ45	ST	2Km	1310	-19	-20
	EM-C120MT	UTP	MM Fibre	100	100	RJ45	MTRJ	2Km	1310	-19	-20
	EM-C120.S	UTP	SM Fibre	100	100	RJ45	SC	5Km	1310	-13	-31
	EM-C120.S20	UTP	SM Fibre	100	100	RJ45	SC	20Km	1310	-15	-34
	EM-C120.S60	UTP	SM Fibre	100	100	RJ45	SC	60Km	1310	-5	-34

* EM-C357S3.S series must be installed with EM-C357S5.S equivalent

Power Budget (dBm) = Min. TX Output (dBm) - Sensitivity (dBm)

MM: MultiMode

SM: SingleMode

Media Converter Chassis Systems			
Model	No. of Slots	Managed	Power Configuration
CR-1601	16	Yes	Dual 240VAC
CR-1602	16	Yes	Dual 48VDC
CR-1611	16	No	Single 240VAC
CR-1612	16	No	Single 48VDC
CR-1621	16	No	Dual 240VAC
CR-1622	16	No	Dual 48VDC
CP-100	1	No	Single 240VAC
CP-200	2	No	Single 240VAC

** Gigabit Ethernet MultiMode Fibre Cable Range			
	Diameter (Microns)	Modal Bandwidth	Cable Range
1000Base-SX Gigabit Multi-Mode Fibre	62.5	160	2 to 220m
	62.5	200	2 to 260m
	50	400	2 to 500m
	50	500	2 to 550m