



## Media Conversion

Alloy offer a complete range of media conversion for Ethernet, FastEthernet, Gigabit Ethernet, ATM, and asynchronous serial networks over various interface types such as multi-mode and single-mode fibre optic, copper RJ-45 and copper serial. All converters are fully compliant with IEEE multi-protocol standards, including 10Base-T/2/FL, 100Base-TX/FX, 1000Base-SX/LX, and ATM protocols.

The converters ship as standard with a mains plug pack, but can also be directly powered from a PC or Notebook via a PS/2 keyboard adapter or a spare USB slot (FE-C120 series only).

For centralised media conversion a hot swapable, 10 slot, 19 inch rackmount chassis can be used to provide a single power source for multiple converters. The rack chassis solution provides various power options from dual redundant to single power supplies in either mains AC voltages or Telco 48V DC options.

Serial to Fibre



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.

Ethernet



Conversion of legacy networks. 10Base-T to fibre 10Base-FL in multi-mode or single-mode fibre.

Gigabit Ethernet



Conversion of high speed backbone networks. 1000Base-T to fibre 1000Base-SX/LX. Or 1000Base-SX fibre to 1000Base-LX fibre.

CR-1000 chassis



Designed to accommodate Alloy slide-in converters. High-density design can host up to 10 media converters. 19 inch rack-mountable with full power redundancy.

ATM



Conversion of backbone or telecommunication networks. Multimode to singlemode converters for OC-3 ATM at 155Mbps and OC-12 SONET/ATM at 622Mbps

Fast Ethernet



Conversion between various modern networking media types. Extensive fibre termination options. ST/SC/VF-45/MT-RJ/LC 10/100Base-TX to Fibre 100Base-FX in multi-mode or single-mode Fibre or multi-mode fibre to single-mode fibre

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				
Ethernet	ET-109RST	UTP	MM Fibre	10	10	RJ-45	ST	2Km	820	-16	-29.5
	ET-209RST	UTP	MM Fibre	10	10	RJ-45	ST	2Km	820	-16	-29.5
	ET-209RST.S	UTP	MM Fibre	10	10	RJ-45	ST	10Km	1310	-27	-36
	ET-509R	UTP	RG58 A/U	10	10	RJ-45	BNC	185m	NA	NA	NA
Fast Ethernet	FE-C107xx	UTP	MM Fibre	10/100	100	RJ-45	SC/ST MTRJ/VF45	2Km	1310	-19	-30
	FE-C107SC.S20	UTP	SM Fibre	10/100	100	RJ-45	SC	20Km	1310	-15	-31
	FE-C107SC.S40	UTP	SM Fibre	10/100	100	RJ-45	SC	40Km	1310	-8	-34
	FE-C107SC.S60	UTP	SM Fibre	10/100	100	RJ-45	SC	60Km	1310	-5	-34
	FE-C120xx	UTP	MM Fibre	10/100	100	RJ-45	SC/ST MTRJ/VF45	2Km	1310	-19	-30
	FE-C120SC.S20	UTP	SM Fibre	10/100	100	RJ-45	SC	20Km	1310	-15	-31
	FE-C120SC.S40	UTP	SM Fibre	10/100	100	RJ-45	SC	40Km	1310	-8	-34
	FE-C120SC.S60	UTP	SM Fibre	10/100	100	RJ-45	SC	60Km	1310	-5	-34
	FE-C120S3.S20*	UTP	Singe Strand SM Fibre	10/100	1000	RJ-45	Single SC	20Km**	Tx:1310 Rx:1550	-15	-31
FE-C120S5.S20*	UTP	Singe Strand SM Fibre	10/100	1000	RJ-45	Single SC	20Km**	Tx:1550 Rx:1310	-15	-31	
ATM	FE-C255SC	MM Fiber	SM Fibre	155	155	SC	SC	2Km	1310	MM:-19	MM:-30
								20/40/60Km	1310	SM:-15	SM:-30
	FE-C622SC	MM Fiber	SM Fibre	622	622	SC	SC	2Km	1310	MM:-19.5	MM:-30.5
								15/40Km	1310	SM:-15	SM:-32
Gigabit Ethernet	GE-C300SC	MM Fiber	SM Fibre	1000	1000	SC	SC	2Km	MM:850	MM:-10	MM:-17
								10Km	SM: 1310	SM:-13	SM:-20
	GE-C301SC	UTP	MM Fibre	1000	1000	RJ-45	SC	220/550m	850	-9.5	-18
	GE-C301SC.S10	UTP	SM Fibre	1000	1000	RJ-45	SC	10Km	1310	-11	-20
	GE-C301SC.S50	UTP	SM Fibre	1000	1000	RJ-45	SC	50Km	1550	-6	-23
	GE-C301S3.S20	UTP	Singe Strand SM Fibre	1000	1000	RJ-45	Single SC	20Km	Tx:1310 Rx:1550	-8	-21
GE-C301S5.S20	UTP	Singe Strand SM Fibre	1000	1000	RJ-45	Single SC	20Km	Tx:1550 Rx:1310	-8	-21	
Fibre Serial	RS-C100ST-3	RS-232	MM Fibre	115Kbps	-	DB25	ST	2Km	820	-16	-29.5
	RS-C200ST-1	RS-232 422/485	MM Fibre	115/500 Kbps	-	DB9	ST	2Km	820	-16	-29.5
	RS-C200ST-2	RS-232 422/485	MM Fibre	115/500 Kbps	-	Term	ST	2Km	820	-16	-29.5
	RS-C200ST-3	RS-232 422/485	SM Fibre	115/500 Kbps	-	DB9	ST	20Km	1310	-12	-31
	RS-C200ST-4	RS-232 422/485	SM Fibre	115/500 Kbps	-	Term	ST	20Km	1310	-12	-31

\* FE-C120S3.S20 and FE-C120S5.S20 must be installed in pair

\*\*20, 40 and 60 Km versions also available

xx - substitutes for connector type: SC/ST/MTRJ/VF45

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

MM: Multi-mode

SM: Single-mode

Media converter optional power accessories	
SPC	PS/2 Self Powering Cable (32cm) for Converters.
SPC-L	PS/2 Self Powering Cable (71cm) for Converters.
SPC-S	Self Powering Cable (32cm) for Sun Workstations/Servers
SPC-SL	Self Powering Cable (71cm) for Sun Workstations/Servers
SPC-PCS	Self Powering Adapter for PC systems Takes power from the PC power supply.

Media converter chassis systems	
CR-1000	10 Slot Media Converter Chassis with dual redundant power supplies
CR-1011	10 Slot Media Converter Chassis with single power supply
CR-1012	10 Slot Media Converter Chassis with 48VDC power supply



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