FCR200 Series Fast Ethernet Media Converters

Dual Purpose Rackmountable or Standalone Fast Ethernet Media Converters

Alloy FCR200S3.20 WDM Converter

Alloy's FCR200 series are designed for use either as standalone Fast Ethernet Media Converters, or can be installed as Media converter Modules in an Alloy DCR12 series 12-slot Media Converter Chassis.

The FCR200 series is one of the most comprehensive Fast Ethernet Converter range available, and comprises of models within three broad technology groups:
* UTP to Multimode fibre
* UTP to Singlemode fibre
* UTP to WDM fibre

Individual models feature media conversion options for RJ-45 to ST, RJ-45 to SC, RJ-45 to LC, RJ-45 to MT-RJ and RJ-45 to VF-45.

A media Converter is used to create network segment over long distances via fibre optic cable, FCR200 multimode models support up to 2 kilometres range; singlemode and WDM models have a range of up to 100 kilometres.

Our WDM fibre models, which support duplexed TX and RX data over a single fibre core, are often used to minimise the amount of fibre cable required, or where existing fibre cable has reached maximum capacity.

All FCR200 models provide complete data security through the use of fibre optic cable connectivity.

FCR200 series converters support Link Failure Pass-through (LFP), ensuring that a LED error status is propagated through a network segment affected by a physical link failure.

Two methods of LFP is supported, FEF (Far End Fault) and Forced Mode. This allows diagnostics of link faults when used as pairs or with a Fibre Optic switch.

All models in the range are housed in a compact, rugged all metal case.

Alloy provides flexible options for powering FCR200 series Converters. Used in standalone mode, all models in the range can be powered by plugpack, or via an on-board USB port. Optionally,

Converters can be powered by a Self Powering Cable which provides power from the PS/2 keyboard port of a computer or notebook, or by using an Internal Power Adapter Card, which, when installed in a PC, provides power connectivity in a rear slot of the PC to provide power. Use one of these options if you need to use a Converter with a notebook, or don't have a mains power outlet available for a plugpack.

Technical Specifications

	UTP to Multimode	UTP to Singlemode		UTP to WDM
Part Numbers	FCR200ST FCR200SC FCR200MT FCR200VF FCR200LC	FCR200SC.05 FCR200SC.20 FCR200SC.40 FCR200SC.60 FCR200SC.80 FCR200SC.100 FCR200SC.2015 FCR200SC.4015 FCR200SC.6015		FCR200S3.20 FCR200S5.20 FCR200S3.40 FCR200S5.40 FCR200S3.60 FCR200S5.60 FCR200S3.80 FCR200S5.80 FCR200S3.100 FCR200S5.100
Speed (Mbps)	100			
Connector Types	TX: RJ-45	TX: RJ-45		TX: RJ-45
	FX: ST/SC/MT-RJ/VF45/LC	FX: SC		FX: SC (single core)
Max. Range.TX (m): FX(Km):	100 2	100 5/20/40/60/80/100		100 20/40/60/80/100
Duplex Mode	TX:/FX Full/Half			
Flow Control	■ Full duplex: 802.3x ■ Half duplex: Backpressure			
Wavelength (nm)	1310	Range 5-60Kms: 1310 Range 60Kms>: 1550		S3 models TX:310 RX:1550 S5 models TX:1550 RX:1310
Min. TX Output (dBm)	-19 (all models)	Range		S3.20/S5.20: -14 S3.40/S5.40: -8 S3.60/S5.60: -5 S3.80: -2 S5.80: -3 S3.100/S5.100: -2
		5 Kms: -20 20Kms: -15 40Kms: -8	60Kms: -5 80Kms: -6 100Kms: -6	
RX Sensitivity (dBm)	-30 (all models)	Range		S3.20:/S5.20: -31 S3.40/S5.40: -40 S3.60/S5.60: -40 S3.80/S5.80: -35 S3.100/S5.100: -35
		5 Kms: -32 20Kms: -31	60Kms: -34 80Kms: -34 100Kms: -36	
Link Fault Pass-through	Yes – Far End Fault (FEF) and Forced Mode			
Diagnostic LEDs	■ FX Link/ACT ■ FX FDX/COL ■ TX Link/ACT ■ TX 100 ■ Power			
Power and Install Options	Standalone: ■ Plugpack ■ USB port ■ Self-powering cable ■ SPA/PCS interface Rackmount: ■ DCR12xx Chassis			
Power requirement	1A@+5V DC			
Ambient Temperature	0°C - 50°C			
Humidity	5% - 90%			
Dimensions	26.2(H) x 70.3(W) x 94(D) mm			
Weight:	225 grams			
Compliance	■ FCC Part 15 Class A ■ CE Mark ■ C-Tick			

FCR Fast Ethernet Converter Family - Key features

- ✓ Dual purpose design – use 'Standalone" or install Converter Modules in an Alloy DCR12 Media Converter Chassis
- ✓ Ethernet RJ-45 to multimode fibre
- ✓ Ethernet RJ-45 to singlemode fibre
- ✓ Ethernet RJ-45 to WDM fibre – singlemode/singlecore
- ✓ Fibre range – up to 100 kilometres

- ✓ All models with auto-configuring speed/ duplex mode, or
- ✓ DIP switches for manual speed/duplex configuration
- ✓ All models support LFP (Link Fault Pass-through)
- ✓ Rugged, compact all metal case
- ✓ Flexible Converter power options, including power via on-board USB port

Wide Range of Ethernet Media Converters

FCR200 Series includes UTP to multimode, singlemode and WDM fibre models.

Other Alloy Media Converters

FCR200 Fast Ethernet Converters are part of a wider range of Gigabit Ethernet, Ethernet, ATM, and Serial Comms Media Converters.

Dual Purpose Converters

FCR200 Series Converters can be used either as standalone devices, or installed in Alloy DCR12 Series 12-slot Media Converter Chassis

Supported Cable Types

FCR200 Series Converters support RJ-45 for UTP, and ST, SC, LC, MT-RJ or VF-45 fibre connectors, depending on individual model.

Flexible Power Options

All FCR200 Series Converters are supplied with a plugpack for mains power, or can be powered via an on-board USB port. Alternatively, options are available to power these devices from a PC or SUN computer PS/2 port, or from a PC's internal power supply:

SPC	Self Powering Cable (36cm) for Converters. PC PS/2 connector
SPC-L	Self Powering Cable (71cm) for Converters. PC PS/2 connector
SPC-S	Self Powering Cable (36cm) for Converters. SUN PS/2 connector
SPC-SL	Self Powering Cable (71cm) for Converters. SUN PS/2 connector
SPA-PCS	Internal PC Power Adapter Card & Cables for Converters