www.alloy.com.au

GCR2000 Series Ethernet Media Converters

Dual Purpose Rackmountable or Standalone Gigabit Ethernet Media Converters

Alloy GCR2000SC

Alloy's GCR2000 series are designed for use either as standalone Gigabit Ethernet Media Converters, or can be installed as Media Converter Modules in an Alloy DCR12 series 12-slot Media Converter Chassis.

The GCR2000 series is a comprehensive family of Gigabit Ethernet Converters, offering solutions for a wide variety of Gigabit media conversion applications. Individual models are available in four broad technology groups:

•UTP to Gigabit Multimode fibre
•UTP to Gigabit Singlemode fibre
•UTP to Gigabit WDM fibre
•UTP to Gigabit SFP

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

SFP Modules can be interchanged to add Multimode, Single Mode, WDM and CWDM Connectivity to your media converter.

A media Converter is used to establish a high performance Gigabit network segment over long distances via fibre optic cable, GCR multimode models support up to 550 metres range; singlemode models have a range of up to 50 kilometres, and WDM models have a range of up to 20 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 GCR2000 models provide complete data security through the use of fibre optic cable connectivity.

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

Alloy provides flexible options for powering GCR2000 series Converters. Used in standalone mode, all models in the range are powered by plugpack. 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. USB power can also be use via the USB port on the rear of the media converter. 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.

The GCR2000 Series converters support two modes of LFP (Link Failure Propagation), the first by a feature called FEF (Far End Fault), this method can only be used in a paired configuration with another device that supports LFP via FEF. The second is a method called forced mode which allows the media converter to support LFP when connected to NON-FEF-AWARE devices such as Fibre Network Switches.

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Technical Specifications

	UTP to Multimode	UTP to Singlemode	UTP to WDM	UTP to SFP
Part Numbers	GCR2000SC GCR2000LC	GCR2000SC.10 GCR2000SC.30 GCR2000SC.50 GCR2000LC.10 GCR2000LC.30 GCR2000LC.50	GCR1000S3.20 GCR1000S5.20	GCR2000SFP
Speed (Mbps)	10/100/1000 (10/100/1000Base-T, 1000Base-SX or 1000Base-LX)			
Cable Types Supported	1000Base-SX: 50/125, 62.5/125, or 100/140µm multimode 1000Base-LX: 8.3/125, 8.7/125, 9/125 or 10/125µm singlemode			
Connector Types	TX: RJ-45 FX: SC/ LC	TX: RJ-45 FX: SC	TX: RJ-45 FX: SC (single core)	LC via SFP Module
Max. Range	TX: 100m FX: 220/550m	TX: 100m FX: 10/30/50Kms	TX: 100m FX: 20Kms	Upto 120Km
Duplex Mode	TX:`/FX Full/Half			
Wavelength (nm)	850	Range 10-30Kms: 1310 Range 50Kms>: 1550	S3 models TX: 1310 RX: 1550 S5 models TX: 1550 RX: 1310	
Min. TX Output (dBm)	-9.5 (all models)	GCR2000SC.10: -9.5 GCR2000SC.30: -4 GCR2000SC.50: -4 GCR2000LC.10: -9.5 GCR2000LC.30: -4 GCR2000LC.50: -4	GCR2000S3.20: -9 GCR2000S5.20: -9	
RX Sensitivity (dBm)	GCR2000SC: -18 GCR2000LC: -17	GCR2000SC.10: -20 GCR2000SC.30: -23 GCR2000SC.50: -23 GCR2000LC.10: -20 GCR2000LC.30: -23 GCR2000LC.50: -23	GCR2000S3.20: -21 GCR2000S5.20: -21	
Diagnostic LEDs	FX Link/Act TP Link/Act 10/100/1000 PWR		FX Link/Act TP Link/Act 10/100/1000 PWR	FX Link/Act TP Link/Act 10/100/1000 PWR
Power & Install options	Standalone: • Plugpack • USB • Self-powering cable • SPA/PCS interface Rackmount: • DCR12xx Chassis			
Power Input	1A@+5V DC			
Temperature	0°C - 50°C (ambient)			
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			

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