GCR Series Ethernet Media Converters

Dual Purpose Rackmountable or Standalone Gigabit Ethernet Media Converters

Alloy's GCR 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 GCR 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
•Gigabit Multimode to Singlemode fibre

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

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. Multimode to Singlemode Converters have a range of 30 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 GCR 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 GCR 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. 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.

Alloy GCR-1300SC multimode to singlemode Converter

Technical Specifications

	UTP to Multimode	UTP to Singlemode	UTP to WDM	Fast Ethernet Converter Model
Part Numbers	GCR1000SC GCR1000MT GCR1000LC	GCR1000SC.10 GCR1000SC.3013 GCR1000SC.3015 GCR1000SC.50	GCR1000S3.20 GCR1000S5.20	GCR1300SC GCR1300SC.S30
Speed (Mbps)	1000 (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/MT-RJ/ LC	TX: RJ-45 FX: SC	TX: RJ-45 FX: SC (single core)	FX (MM): SC FX (SM): SC
Max. Range	TX: 100m FX: 220/550m	TX: 100m FX: 10/30/50Kms	TX: 100m FX: 20Kms	MM: 220/550m SM: 10Kms or 30Kms
Duplex Mode	TX:`/FX Full/Half			
Wavelength (nm)	850	Range 10-30Kms: 1310 Range 30Kms>: 1550	S3 models TX: 1310 RX: 1550 S5 models TX: 1550 RX: 1310	MM: 850 SM: 1310
Min. TX Output (dBm)	-9.5 (all models)	GCR1000SC.10: -9.5 GCR1000SC.3013: -4 GCR1000SC.3015: -6 GCR1000SC.50: -4	GCR1000S3.20: -9 GCR1000S5.20: -9	GCR1300SC MM: -9.5 / SM: -9.5 GCR1300SC.30 MM: -9.5 / SM: -9
RX Sensitivity (dBm)	GCR1000SC: -18 GCR1000LC: -17 GCR1000MT: -17	GCR1000SC.10: -20 30Kms range: -23 GCR1000SC.3015: -23 GCR1000SC.50: -23	GCR1000S3.20: -21 GCR1000S5.20: -21	GCR1300SC MM: -18 / SM: -17 GCR1300SC.30 MM: -18 / SM: -23
Diagnostic LEDs	FX Link FX FDX TX Link TX ACT Power		FX Link FX FDX TX Link TX ACT Power	SD Power
Power & Install options	Standalone: • Plugpack • Self-powering cable • SPA/PCS interface Rackmount: • DCR12xx Chassis			
Power Input	2A@+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			

GCR Gigabit Ethernet Converters - Key features

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

- ✓ Gigabit Ethernet multimode to singlemode fibre
- ✓ Fibre range – up to 50 kilometres
- ✓ Rugged, compact all metal case
- ✓ Flexible Converter power options

Wide Range of Gigabit Media Converters

GCR Series includes UTP to multimode, singlemode or WDM fibre models, plus multimode to singlemode fibre Converters.

Other Alloy Media Converters

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

Dual Purpose Converters

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

Supported Connector Types

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

Flexible Power Options

All GCR Series Converters are supplied with a plugpack for mains power. 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