Media converters for Ethernet networks

Secure communication via fiber

PHOENIX CONTACT

Ethernet media converters

For high-level immunity to interference and long transmission ranges in industrial applications, media converters transparently convert Ethernet data to fiber optics. Depending on the device and cable, they bridge distances of up to 80 km at data rates of up to 1 Gbps.

The Ethernet media converter family features durability and versatility in particular. The comprehensive portfolio of state-of-the-art media converters is divided into three product series: applications with basic requirements, advanced requirements for demanding industrial environments, and applications with requirements on special approvals.

Choose among the range of functions suitable for your application and various fiberglass interfaces. The unique mounting accessories also offer particularly flexible installation options.

Your advantages:

Compact design

Low latency times for time-critical applications

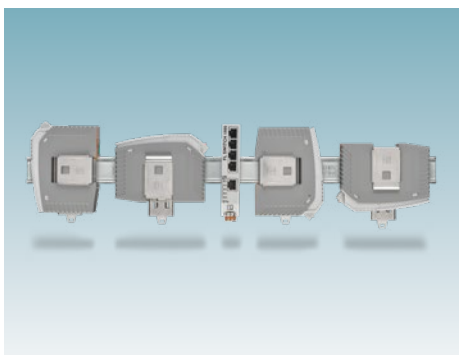
Redundant power supply

Broad portfolio for every application

Gigabit communication – for applications with high data throughputs

Single-fiber transmission

Bidirectional transmission using a single fiber-optic cable for rotating applications.



Flexible installation

Mounting accessories enable flat mounting for control cabinets with limited space.

Comprehensive portfolio

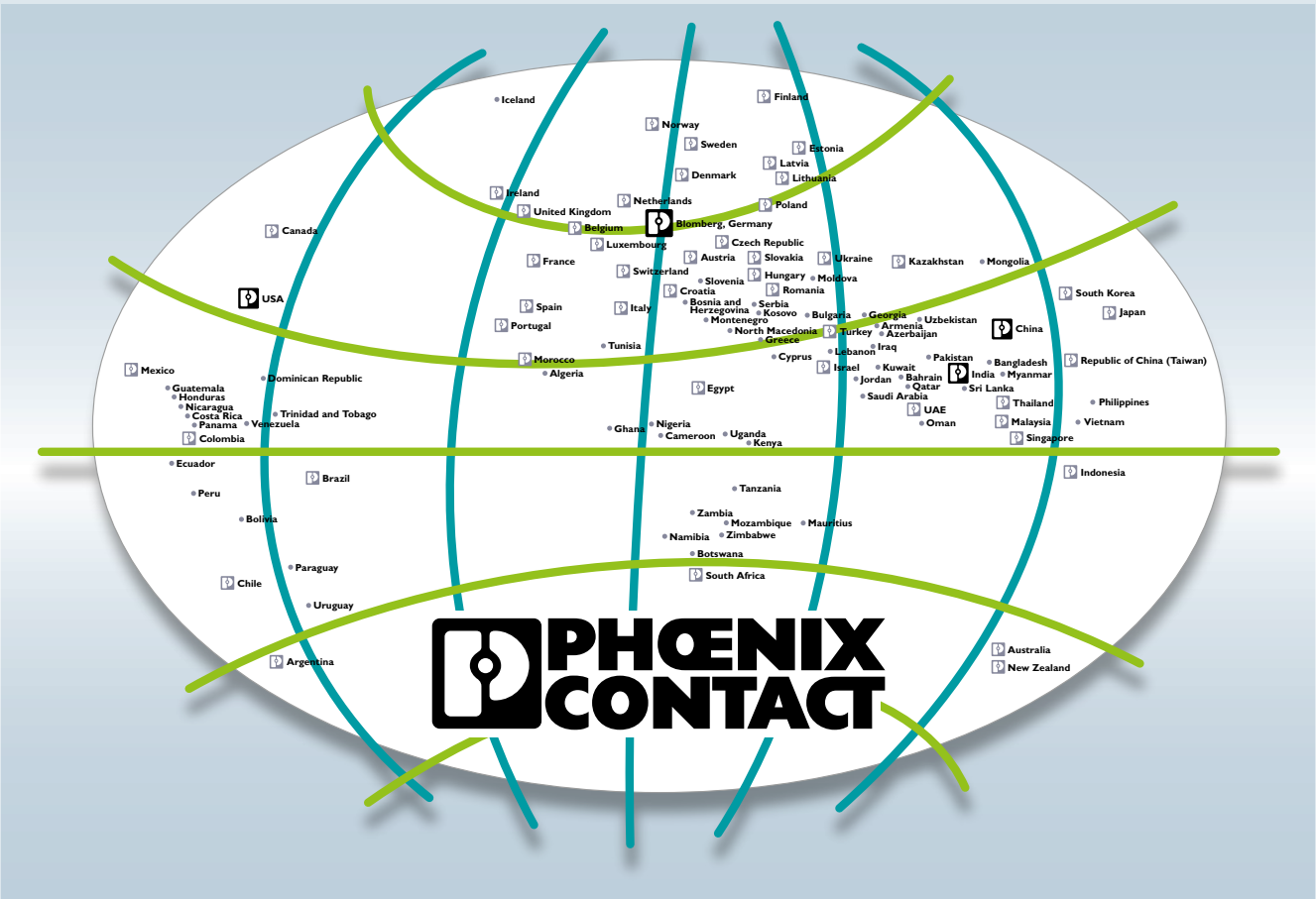
Together with the FL SWITCH 1000, the media converters form a product family for every application with the same look and feel.

Product overview

	FO connection	Range	Data rate	Special features	Type	Item no.
MC 1000 – media converters for applications with basic requirements						
Temperature range: -10°C … +60°C, for an easy introduction to FO technology						
 	MM SC	Up to 10 km	10/100 Mbps	• Automatic switching between store-and-forward and cut-through mode • Short latency times for real-time protocols • Link Fault Pass Through (LFPT) – activated via DIP switch	MC 1000-MM SC	1329817
	MM ST				MC 1000-MM ST	1329818
	MM LC				MC 1000-MM LC	1329819
	SM SC	Up to 20 km			MC 1000-SM20 SC	1329820
	SM ST				MC 1000-SM20 ST	1329821
	MM WDM A	Up to 10 km			MC 1000-MM WDM A	1329822
	MM WDM B				MC 1000-MM WDM B	1329823
	MM SC		10/100/1000 Mbps		MC 1100-MM SC	1330888
	SFP	Depending on module			MC 1100-SFP	1330903
MC 1000T – media converters for applications in demanding industrial environments						
Temperature range: -40°C ... +75°C, robust metal housing, shipbuilding approval, redundant power supply						
  	MM SC	Up to 10 km	10/100 Mbps	• Automatic switching between store-and-forward and cut-through mode • Short latency times for real-time protocols • Link Fault Pass Through (LFPT) – activated via DIP switch • Redundant power supply • Digital output for reading out alarm messages • DNV-GL approval	MC 1000T-MM SC	1329827
	MM ST				MC 1000T-MM ST	1330244
	MM LC				MC 1000T-MM LC	1330259
	SM SC	Up to 20 km			MC 1000T-SM20 SC	1330262
	SM SC	Up to 40 km			MC 1000T-SM40 SC	1330276
	SM ST	Up to 20 km			MC 1000T-SM20 ST	1330282
	SM WDM A	Up to 40 km			MC 1000T-SM40 WDM A	1330293
	SM WDM B				MC 1000T-SM40 WDM B	1330296
	MM WDM A	Up to 10 km			MC 1000T-MM WDM A	1330494
	MM WDM B				MC 1000T-MM WDM B	1330509
	SFP	Depending on module	10/100/1000 Mbps		MC 1100T-SFP	1330902
	MM SC	Up to 10 km			MC 1100T-MM SC	1330900
	SM SC	Up to 20 km			MC 1100T-SM20 SC	1330898
MC 1000E – media converters for applications with requirements on special approvals						
Temperature range: -40°C ... +75°C, robust metal housing, extended approval package, redundant power supply						
  	MM SC	Up to 10 km	10/100 Mbps	• Automatic switching between store-and-forward and cut-through mode • Short latency times for real-time protocols • Link Fault Pass Through (LFPT) – activated via DIP switch • Redundant power supply • Digital output for reading out alarm messages • Increased resistance to EMI • DNV-GL, ATEX, IECEx, and UL HazLoc approval • IEC 61850 and IEEE 1613 for applications in the energy sector	MC 1000E-MM SC	1330507
	MM ST				MC 1000E-MM ST	1330504
	MM LC				MC 1000E-MM LC	1330611
	SM SC	Up to 20 km			MC 1000E-SM20 SC	1330728
	SM SC	Up to 40 km			MC 1000E-SM40 SC	1330725
	SM ST	Up to 20 km			MC 1000E-SM20 ST	1330723
	SM LC	Up to 40 km			MC 1000E-SM40 LC	1330722
	SM WDM A				MC 1000E-SM40 WDM A	1330885
	SM WDM B				MC 1000E-SM40 WDM B	1330892
	MM WDM A	Up to 10 km			MC 1000E-MM WDM A	1330588
	MM WDM B				MC 1000E-MM WDM B	1330890
	SFP	Depending on module	10/100/1000 Mbps		MC 1100E-SFP	1331375
	MM SC	Up to 10 km			MC 1100E-MM SC	1330896
	SM SC	Up to 20 km			MC 1100E-SM20 SC	1331377

Media converters web code: #3448

Unmanaged switches web code: #2528



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Our wide range of innovative products makes it easy for our customers to implement the latest technology in a variety of applications and industries. This especially applies to the target markets of energy, infrastructure, industry, and mobility.

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