

GIGABIT MEDIA CONVERTER RMC100 / RMC1000



The RMC100 / RMC1000 Rekofa GBit Ethernet-SFP Media Converter is an optically transfer unit, capable to transmit Ethernet data with low latency over a multimode fiber. Standard Ethernet rates (100 or 1.000 Mbps) are compatible with the copper side Harting Ethernet preLink input.

Features:

- Low latency (340-370ns) - no switch buffer delays
- Compatible with 100/1.000 Mbps copper links per IEEE 802.3
- Interchangeable SFP transceivers
- Isolated Voltage Feed / Electrical isolation
- Onboard diagnostic LED
- Additional external LED

ADVANTAGES

- Enables fastest response for time-critical links
- Supports a wide range of optical options

APPLICATIONS

- Industrial automation
e.g. turntables / trunnions
(Automotive)
- Windmills (blade adjustment)
- Packaging machines
- Filling machines



Available Article numbers

- RMC100 Art. No.: 5039395 (Standard Ethernet rate 100 M)
- RMC1000 Art. No.: 5038273 (Standard Ethernet rate 1G)

SPECIFICATIONS

TECHNICAL DATA

Mechanical/Physical/Environmental	
Dimensions	W50mm x L55mm x H20mm not including SFP and Harting overhang
Operating environment	air, atmospheric pressure, up to 2000m above sea level
Temperature	operation: -40°C to +70°C storage: -40°C to +85°C"
Humidity	0-95% RH, non-condensing
Cooling	passive cooling
Conformal Coating	conformal coated SL 1301 ECO-FLZ/23
EMC / ESD	EN 61000-4-2, EN 61000-6-2, EN 61000-6-4
Marking	PCBs identified with Rekofa PN S/N and ID label on side of DC/ DC-converter

Power	
Input Voltage	+18 to +30VDC (+24VDC nominal), isolated
Input current	0,07A - 0,095A, depending on operation mode
Input fuse	0,5A slow, Omni Blok
Over/Under voltage protection	included
Reverse Polarity protection	included
Surge Protection	included

Electrical Connectors	
Ethernet	Harting preLink Harting 20820071100
Power / external LED	Push-In - cage clamp terminal Phoenix-Contact, PTSM-0,5/8-2,5

Optical Interface	
Number of Channels	1
Optical transceiver	SFP EOLS-BI1312-M-DIL / EOLS-BI1512-M-DIL
Optical Fiber Type	SMF/MMF, depending on SFP
Supported Protocol	100 BASE-FX JP1 closed 1000 BASE-X JP2 closed
Operating Speed	100Mbit JP1 closed 1 Gbit JP2 closed

Ethernet Interface	
Ethernet Interface	100 BASE-TX JP1 closed 1000 BASE-T JP2 closed
Isolation	500VDC
Signal latency time	340 .. 370 ns
Ethernet COM settings	configured as auto-negotiate, with the available speeds set by JP1/JP2

Diagnostics	
LED	4 x LED onboard to indicate Power, Link Status, Speed and Activity Isolated ports for external LED on terminal Power/external LED

General Requirements	
Quality	ISO-9001 (2015)
RohS	RoHS compliant
REACH	REACH compliant
Standards, PCB	- IPC-2221A (Generic Standard on Printed Board Design) - IPC-2222 (Sectional Standard on Rigid PWB Design) - IPC-2223A (Sectional Design Standard for Flexible Printed Boards)
Standards	- 2014/35/EU Low Voltage Directive - 2006/42/EU Machinery Directive - 2014/30/EU EMC Directive

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