







The device is an industrial media converter with a 10Mbit/s RJ-45 ETHERNET port (10BASE-T) and a single-pair Ethernet port (10BASE-T1L). The media converter enables ETHERNET communication with a bandwidth of 10 Mbit/s with shielded twisted pair cabling over a maximum range of 1,000 meters.

The automatic detection of the transmission rate (autonegotiation) of the connected ETHERNET device enables simple “plug & play” operation. The SPE cable is connected simply and quickly to a cage clamp connector with a lever. The use of Single Pair Ethernet significantly reduces the cost of integrating an ETHERNET connection at long ranges. In particular, the use of existing cables can significantly reduce the costs of connecting decentralized ETHERNET-capable sensors to an automation system. Another application is the networking of distant ETHERNET devices using two SPE media converters over a maximum distance of 1000 meters. This application offers the possibility of substituting DSL modems or fiber optic connections. The compact design with mounting rail adapter enables simple installation in the control cabinet with high resistance to heat, vibration and shock. The device can be operated with the usual supply voltage of 24 VDC.

Technical data	
Communication standards	IEEE 802.3i 10BASE-T IEEE 802.3cg 10BASE-T1L (Single Pair Ethernet)
Configuration options	DIP switch for configuring the Single Pair Ethernet port
Jumbo frame size	16000 bytes
Supply voltage	12 ... 48 VDC; (±15 %); 12 ... 48 VDC (UL)
Power consumption (max.)	3 W
Current consumption (max.)	250 mA
Transmission rate	10BASE-T: 10 Mbit/s; 10BASE-T1L: 10 Mbit/s
Transmission medium (communication/fieldbus)	10BASE-T: Copper cable Cat. 5 or higher, 100 m maximum cable length; 10BASE-T1L: SPE (10BASE-T1L) compliant cable, 1000 m maximum cable length
Indicators	Device: LED (PWR) green: Supply voltage status; Ports: LED 10BASE-T port (10, LNK/ACT) green: connection, data transfer; LED 10BASE-T1L connector (LNK/ACT) green/amber: SPE status



Connection data		
Connection technology: communication/fieldbus	10BASE-T: 1 x RJ-45; 10BASE-T1L: 1 x Built-in male connector: 231-433/001-000; included female connector (MCS Connectors): 2231-1103/327-000	
Connection technology: supply	1 x Built-in male connector: 231-433/001-000; included female connector (MCS Connectors): 2231-1103/327-000	
Connectable conductor materials	Copper	

Physical data		
Width	23.4 mm / 0.921 inches	
Height	103.4 mm / 4.071 inches	
Depth from upper-edge of DIN-rail	68 mm / 2.677 inches	

Mechanical data		
Weight	87 g	
Housing material	Steel Electrolytic Cold Commercial (SECC)	

Environmental requirements		
Ambient temperature (operation)	-40 ... +75 °C	
Ambient temperature (storage)	-40 ... +80 °C	
Protection type	IP30	
Relative humidity (without condensation)	95 %	
Mounting type	DIN-35 rail	
Vibration resistance	per IEC 60068-2-6	
Shock resistance	per IEC 60068-2-27	
EMC immunity to interference	Per EN IEC 61000-6-2	
EMC emission of interference	Per EN IEC 61000-6-4	
Fire load	0 MJ	

Commercial data		
PU (SPU)	1 pcs	
Packaging type	Box	
Country of origin	TW	
GTIN	4066966672787	
Customs tariff number	85176200000	

Product classification		
UNSPSC	43222605	
ETIM 9.0	EC001467	
ECCN	NO US CLASSIFICATION	

Environmental Product Compliance		
RoHS Compliance Status	Compliant,No Exemption	



Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-ISW852
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	E175199

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
SDoC for FCC WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 852-1705



Documentation

Manual
Product Manual Industrial Media Converter
3555343627   1   en-US   2025-01-15 07:21 16.01.2025
pdf 8901.86 KB

