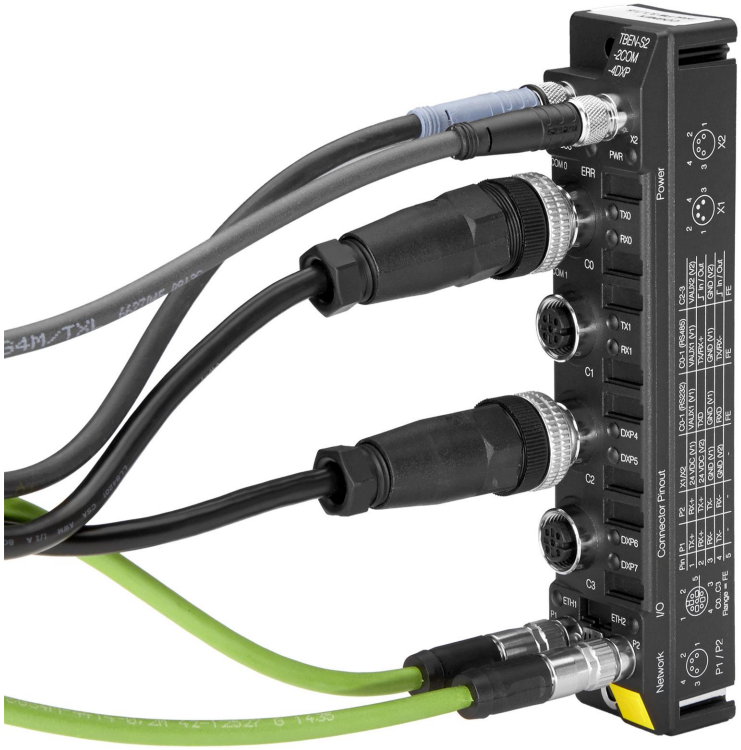
COGNEX

DMA-EZCCM-001
User Guide



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Legal Notices

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Symbols

The following symbols indicate safety precautions and supplemental information:

WARNING: This symbol indicates a hazard that could cause death, serious personal injury or electrical shock.

CAUTION: This symbol indicates a hazard that could result in property damage.

Note: This symbol indicates additional information about a subject.

Tip: This symbol indicates suggestions and shortcuts that might not otherwise be apparent.

About DMA-EZCCM-001

Product Description

The DMA-EZCCM-001 is a communication module for DataMan readers, which supports daisy chaining over Industrial Ethernet. This device is developed in cooperation with the company Turck.

DMA-EZCCM-001 provides the following features:

- Data Exchange via Multiprotocol functionality Ethernet/IP™ Device or PROFINET IO Device
- 2x M8, 4-pole, Ethernet connection
- Integrated Ethernet switch, which allows line topology
- Transmission speed 10 Mbps/100 Mbps
- 4-pole M8-connectors for voltage supply
- Separated power groups for safety shutdown
- Two interfaces for DataMan connection
- Two universal ports for PNP inputs, which can be configured for trigger
- Integrated web server
- LED displays and diagnostics
- Fibre-glass reinforced housing
- Shock and vibration tested
- Fully potted module electronics
- Degree of protection IP65/IP67/IP69K

Functional Principle

The devices provide a multiprotocol Ethernet interface for EtherNet/IP™ and PROFINET. The device is connected to Ethernet as PROFINET IO Device or EtherNet/IP™ Device via the Ethernet interface. Process data between Ethernet andDMA-EZCCM-001 are exchanged during runtime. The DataMan interfaces are used for connecting devices Cognex DataMan Barcode Readers.

Supported DataMan Readers

The following DataMan Series readers can be connected to the device:

- DataMan 70 Series readers
- DataMan 150 Series readers
- DataMan 260 Series readers
- DataMan 360 Series readers
- DataMan 470 Series readers

Multiprotocol Functionality

The compact communication modules of the EZCCM product line combine two Ethernet-protocols:

- PROFINET
- EtherNet/IP™

A multi-protocol device can be operated without intervention from the user (which means, without changes in the parameterization) in both Ethernet protocols mentioned.

During start-up, after a power-on, the module runs in "snooping" mode and detects the Ethernet protocol which requests a link connection by listening to the traffic. If a protocol is detected, the device is set automatically to the respective protocol. After this an access to the device from other protocols is read-only.

Indicator LEDs

Module LED Status

LED	Color	Status	Description
ETH1/ETH2	Green	ON	Ethernet link (100 Mbps)
		Flashing	Ethernet communication (100 Mbps)
	Yellow	ON	Ethernet link (10 Mbps)
		Flashing	Ethernet communication (10 Mbps)
	-	OFF	No Ethernet link
BUS	Green	ON	Active connection to Primary reader
		Flashing	Steady flashing: Ready Sequence of 3 flashes in 2 seconds: operating active
	Red	ON	IP address conflict or Restore Mode or Modbus timeout
		Flashing	Blink/Wink command active
	Red/Green	Alternating	Waiting for assignment of an IP address, DHCP or BootP
	-	OFF	Power off
ERR	Green	ON	Diagnostics disabled
	Red	ON	Diagnostics enabled V_2 undervoltage diagnosis is parameter-dependent
PWR	Green	ON	V_1 and V_2 power on
	Red	ON	V_2 power off or below the defined tolerance of 18V
	-	OFF	V_1 power off or below the defined tolerance of 18V

I/O LEDs

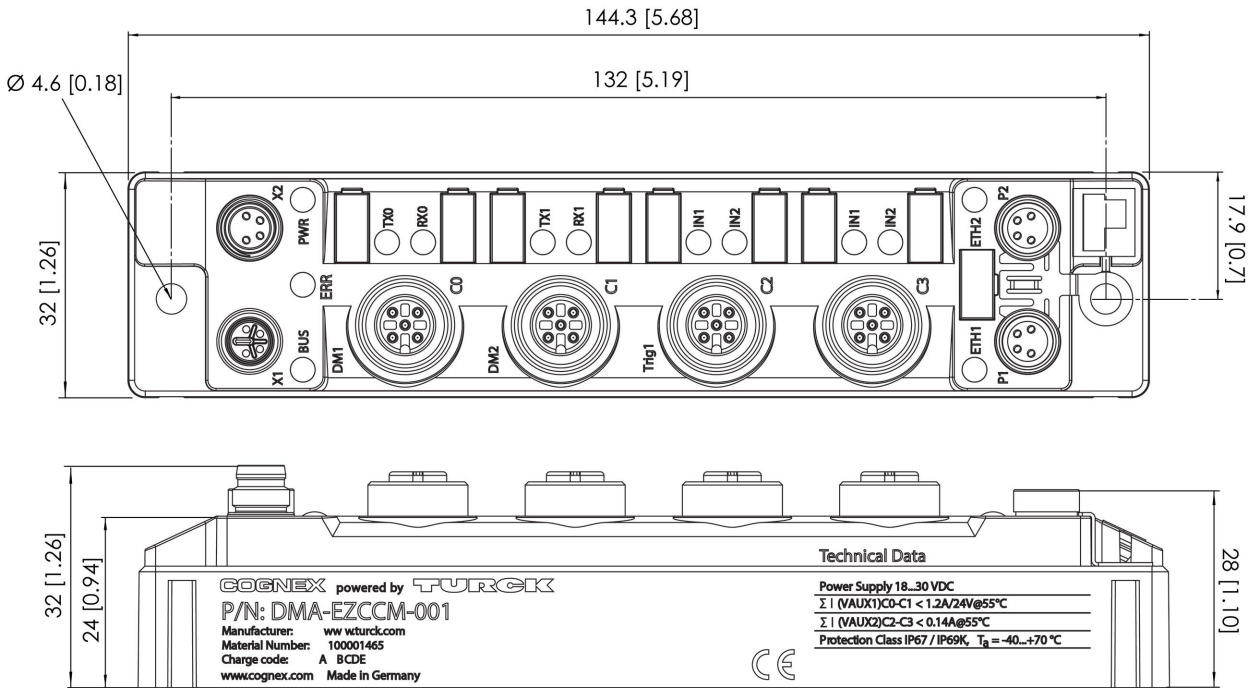
LED	Color	Status	Description
LED TX	GREEN	Flashing	Data is being transmitted.
LED RX	GREEN	Flashing	Data is being received.
	RED	Flashing	Data is being received, protocol error. (Parity, Baud rate, ASCII/RTU)
	RED	ON	Buffer overflow of received data
LED TX and RX	RED	Flashing, simultaneous	Overload of the port supply. Both LEDs of the corresponding port are flashing simultaneously.
	RED	Flashing, alternating	Configuration error. Both LEDs of the corresponding port are alternately flashing.

LED	Color	Status	Description
IN1/IN2	GREEN	ON	Input active
	RED	Flashing	Overload of the port supply. Both LEDs of the corresponding port are flashing.
		OFF	Input of output inactive
C3/IN2	WHITE	Flashing	Blink/Wing command active

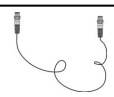
Dimensions

Note:

- All dimensions are in millimeters [inches] and are for reference purposes only.
- All specifications are for reference purpose only, and may be changed without notice.



Accessories

Dataman Cable for DM70 & DM150 - 3 meter* *use also DMA-SERIAL-IP65-ST in combination with DM70	DMCB-EZCCM-DB15-03	
Dataman Cable for DM260, DM300 & DM470 - 3 meter	DMCB-EZCCM-M12-03	
EZCCM Ethernet Cable M8/M8 - 10 meter	DMCB-EZCCM-1011-10	
EZCCM Ethernet Cable M8/RJ45 - 10 Meter	DMCB-EZCCM-1012-10	
EZCCM Power Cable M8/M8 - 10 meter	DMCB-EZCCM-2011-10	
EZCCM Power Cable M8/Flying Leads - 10 meter	DMCB-EZCCM-2013-10