

ITM

MASTER IO-Link

The label *Trafag Industrial Components* extends the Trafag brand name to instruments manufactured by qualified partner companies.
The latest addition is the IO-Link Master of the new Trafag IO-Link Vision line.

Innovation, Precision, Reliability – all in one device: the IO-Link Master. Trafag IO-Link Vision is a new line dedicated to intelligent connectivity; an advanced communication system that optimizes the monitoring and control of industrial devices using the IO-Link Master, which can convert analogue signals into digital ones. Seamless integration into your industrial processes, real-time data for unprecedented control and optimized efficiency through advanced technology.

The *Trafag Industrial Components* IO-Link Master is available in two versions: multi-protocol and Ethercat.



Applications

- General automation
- Hydraulics
- Chemical
- Food and beverage
- Machine tools

Features

- Multi-protocol version: PROFINET, EtherNet/IP, Mosbus TCP
- Ethercat version
- IoT protocols (all versions): MQTT, OPC UA (Server & Client)
- 8 configurable ports A and B
- Virtual PLC
- K-Easy configuration software
- Max Digital input/output: 16
- Output current parametrization from 250mA to 1.6 A
- Operating temperature: -40...85°C
- IP Protection: IP67, IP69K on dedicated version

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Data sheet XXXXXX

Ordering code

		ITM - 8	X	-	XXX	-	ST	-	00
Version	Multi-protocol		M						
	Ethercat		E						
Protection class	IP 67 (black version)						67S		
	IP 69K (white version)						69K		

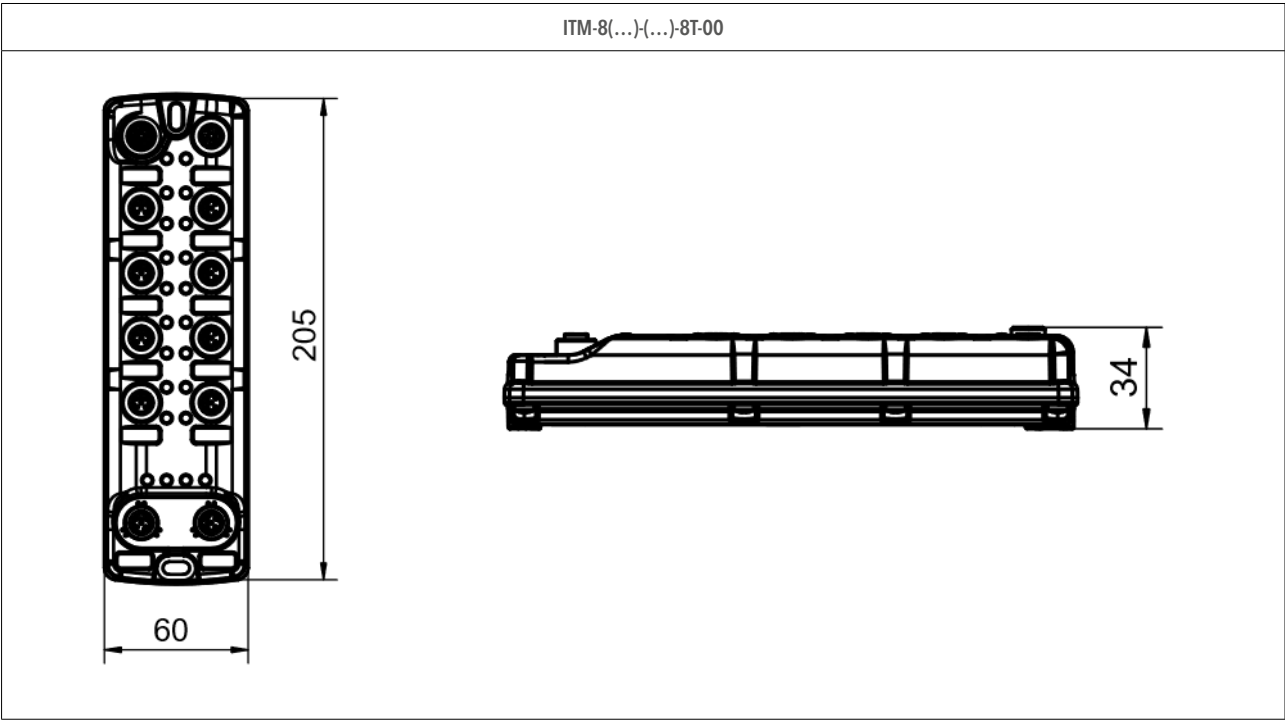
Order example

Ex: ITM-8M-67S-8T-00

- Multi-protocol version with 8 configurable ports (8M)
- IP 67 (67S)

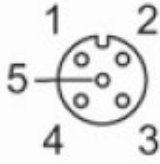
Dimensions – All dimensions are in mm

Tab.x - Dimensions



Data

Electrical data	
Operating voltage (US)	18...30 V DC
Daisy-chain on power supply	yes, multi-protocol version no, Ethercat version
Max allowed current on power daisy chain	12 A
Protection class	III
Additional voltage supply (UA)	24 V DC
Actuator supply UA	
Max. current load total	6 A
Current rating per port	adjustable 0.25 ... 1.6 A
Inrush current per port	2.2 A
Actuator supply Us	
Max. current load total	2 A (8 x 250 mA)
Current rating per port	250 mA
Inputs / Outputs	
Total number of inputs and outputs	16 (configurable)
Max. number of digital inputs	16
Max. number of digital outputs	8
Interfaces	
Multi-protocol version	PROFINET, EtherNet/IP, Mosbus TCP
Ethercat version	Ethercat
Protocols for IoT (in all models)	MQTT, OPC UA (Server & Client)
Transmission standard	10Base-T; 100Base-TX
Transmission rate	10 MBit/s; 100 MBit/s
MAC address	see type label
Daisy-chain	yes
IO-Link Master	
Transmission type	COM1 (4,8 kBaud); COM2 (38,4 kBaud); COM3 (230,4 kBaud)
IO-Link revision	1.1
Number of ports total	8 (configurable A/B)
Max. number of port class A	8
Max. number of port class B	8
Operating conditions	
Ambient temperature	-40...85°C
Storage temperature	-40...85°C

Max. relative air humidity	90%
Protection	IP67; IP69K (specific model)
Test / Approvals	
EMC	EN 61000-6-2, EN 61000-6-4
Mechanical data	
Weight	300g
Housing	rectangular
Type of mounting	backplane mounting
Dimensions	34 x 60 x 205 mm
Materials	Pocan - PBT 12%GF
Electrical connection / PROFINET, EtherNet/IP, Modbus TCP, Ethercat, IoT	
Connector	M12, D-coded
Multi-protocol version	2xM12: ETH1, ETH2 (with IoT)
Ethercat version	3xM12: ECAT IN, ECAT OUT, IoT
	1: TX +
	2: RX +
	3: TX -
	4: RX -
	5: not used
Electrical connection / IO-Link	
Connector: 8xM12, A-coded	P1...P8
	1: L + (device power)
	2: Digital (Class A) or UA+ (Class B)
	3: L - (device power)
	4: C/Q (IO-Link)
	5: not used (Class A) or UA - (Class B)
Electrical connection - Power supply	
Connector	M12, T-coded
Multi-protocol version	2xM12: Power IN, Power OUT
Ethercat version	1xM12: Power IN
	1: US +
	2: UA -
	3: US -
	4: UA +

LEDs	
US	US power ON
UA	UA power ON
E1...E8	IO-Link channel status
B1...B8	ON: Class B; OFF: Class A
DS	Device State
C1	BUS1 communication
C2	BUS2 communication
IoT	IoT communication
Configuration and parametrization	
Dedicated software tool	K-EASY