

FP IOT MD01 4EU S2 00000**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Features of IoT-Gateways**

- Enables machine data acquisition and provides access to field devices and PLC's via various protocols and interfaces
- Interfaces to your own IT systems as well as to common cloud systems
- Data traffic reduction through preprocessing on edge via the open IoT standard Node-RED
- Secure and easy remote maintenance with Weidmüller u-link Remote Access Service
- Integration of most common communication interfaces in small design
- Open programming platform Node-RED with strong community support

General ordering data

Version	FieldPower® IoT-Box, LAN, Wireless, IP54
Order No.	8000058270
Type	FP IOT MD01 4EU S2 00000
GTIN (EAN)	4064675384618
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Depth	155 mm	Depth (inches)	6.102 inch
Height	433 mm	Height (inches)	17.047 inch
Width	228 mm	Width (inches)	8.976 inch
Net weight	2,515 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-20 °C...40 °C
Humidity	5...95 %, no condensation		

Input

AC current consumption	0.5 A @ 230 V AC / 1.0 A @ 100 V AC	Frequency range AC	45...65 Hz
Input voltage (voltage mode input)	85...264 V AC (derating at 100 V AC), optional 24 V external feed-in	Recommended back-up fuse	2 A / DI, safety fuse 6 A, Char. B, circuit breaker 2...4 A, Char. C circuit breaker
Inrush current	max. 40 A	Input fuse (internal)	Yes

Output

Output voltage	optional: max. 950 mA / 24 V	Output voltage type	DC
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Cable gland

Cable gland clamping area, max.	12 mm	Cable gland clamping area, min.	6 mm
Cable gland material	Polyamide 6	Number of cable glands	1

General data

UL 94 flammability rating	V-0
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Power supply

Current consumption	Voltage	24 V
	Current	0.24 A
Inrush current	max. 40 A	
Voltage supply	24 V DC	
Voltage supply range	Voltage type	DC
	Voltage, min.	19.2 V
	Voltage, max.	28 V

System data

Memory (Flash)	4 GB	Memory (RAM)	1 GB, DDR3
Processor	Dual Core ARM Cortex A9, 600 MHz	Real-time clock	Capacity buffered (max. 5 days)

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Technical data

General specifications

Installation advice	Lid screws included	Protection degree	IP54
Material	Polycarbonate, glass fibre reinforced, Polycarbonate	Colour	black, Transparent
UL 94 flammability rating	V-0	Lid attachment	TX20 screws
Torque for lid screws	2 Nm	Enclosure attachment	Fixing lugs

Clamping capacity

Connection data - terminal strip	Wire connection method	PUSH IN	
	Conductor connection cross-section, solid, max.	2.5 mm ²	
	Conductor connection cross-section, solid, min.	0.5 mm ²	
	Conductor connection cross-section, stranded, max.	2.5 mm ²	
	Conductor connection cross-section, stranded, min.	0.5 mm ²	
	Conductor connection cross-section, finely stranded, max.	2.5 mm ²	
	Conductor connection cross-section, finely stranded, min.	0.5 mm ²	
	Conductor connection cross-section, finest stranded, max.	2.5 mm ²	
	Conductor connection cross-section, finest stranded, min.	0.5 mm ²	
	Conductor connection cross-section with wire end ferrule	Type of wire end ferrule	12 mm with plastic collar
		Standard	DIN 46228/1
		Cross-section, min.	0.5 mm ²
		Cross-section, max.	2.5 mm ²
		Type of wire end ferrule	12 mm with plastic collar
		Standard	DIN 46228/4
		Cross-section, min.	0.5 mm ²
		Cross-section, max.	2.5 mm ²
		Type of wire end ferrule	8 mm with plastic collar
		Standard	DIN 46228/1
		Cross-section, min.	0.5 mm ²
		Cross-section, max.	2.5 mm ²
		Type of wire end ferrule	8 mm with plastic collar
		Standard	DIN 46228/4
		Cross-section, min.	0.5 mm ²
		Cross-section, max.	2.5 mm ²
		Type of wire end ferrule	Twin wire-end ferrules
		Cross-section, min.	0.5 mm ²
		Cross-section, max.	2.5 mm ²

Mobile radio interface

Frequency band	LTE: 2100MHz (B1), 1800MHz (B3), 850MHz (B5), 2600MHz (B7), 900MHz (B8), 800MHz (B20), 2600MHz (B38), 2300MHz (B40), 2600MHz (B41), UMTS/WCDMA: 2100MHz (B1), 850MHz (B5), 900MHz (B8), GSM/GPRS/EDGE: 900MHz (B8), 1800MHz (B3)		
Transmission rate mobile radio	LTE category	CAT 4	
	Download rate, max.	150 Mbit/s	
	Upload rate, max.	50 Mbit/s	
Wireless module	LTE / HSPA+ multiband wireless module (4G / 3G / 2G) for fast wireless Internet access		

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Technical data

VPN

u-link	OpenVPN-based remote access service via the Weidmüller u-link cloud
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Environmental conditions

Humidity	5...95 %, no condensation	Operating temperature, max.	40 °C
Operating temperature, min.	-20 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C		

Interfaces

Connector for external antennas	SMA (socket)	Digital inputs	2x, >10 V high, <3.6 V low; max. 30 V DC
Digital outputs	1x, 19.2 - 28 V high; max. 1 A	Ethernet ports	2
Number of SIM-Card slots	1	Number of ports	2x RJ45 10/100/1000BaseT(X), 1x RS-232
RJ45 ports	10/100/1000BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port	SIM-Card slot type	Micro-SIM
Serial port	1x RS232/RS485	USB port	1x USB 2.0 (Type A; max. 500 mA)

Technical data

Colour	black, Transparent	Housing main material	Polycarbonate glass fiber reinforced
Protection degree	IP54	Speed	Fast Ethernet
Type of mounting	Screw mounting, Fixing lugs		

Classifications

ETIM 6.0	EC001099	ETIM 7.0	EC001099
ETIM 8.0	EC001099	ETIM 9.0	EC001099
ECLASS 9.0	19-17-01-00	ECLASS 9.1	19-17-01-00
ECLASS 10.0	19-17-05-90	ECLASS 11.0	19-17-05-90
ECLASS 12.0	19-17-05-90	ECLASS 13.0	19-17-05-90

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1 Potassium perfluorobutane sulfonate 29420-49-3
SCIP	d6f9e3fe-0f29-41d1-a537-4e62eab21ef2

Approvals

Approvals



ROHS	Conform
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Catalogue status 20.04.2024 / We reserve the right to make technical changes.

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Technical data

Downloads

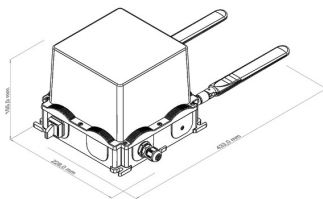
Approval/Certificate/Document of Conformity	CE Declaration of Conformity Fieldpower® IoT box 4G
User Documentation	Manual FieldPower® IoT radio EU size 2 2022.12.14 Security Advisory - Multiple IoT and control products affected by JavaScript injection vulnerability
Catalogues	Catalogues in PDF-format

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Drawings



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www.weidmueller.com**Accessories****angled with cable gland**

RJ45 plug-in connector (no tools required) according to IEC 60603-7-51.

General ordering data

Type	IE-PS-RJ45-FH-90-P-1.6	Version
Order No.	1518100000	RJ45 plug with piercing contacts, angled, 4x90°, Cat.5 (ISO/IEC
GTIN (EAN)	4050118325232	11801), PROFINET
Qty.	1 pc(s).	

Slotted screwdriver

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

Type	SDIS 0.6X3.5X100	Version
Order No.	2749810000	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118897012	thickness (A): 0.6 mm
Qty.	1 pc(s).	

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Accessories

Bits E6,3 - Torx®



The Weidmüller bits are standard bits which are highly popular with users thanks to their good quality, large range and efficiency. The computer-controlled hardening method enables Weidmüller to guarantee a consistently high standard of quality.

The high-quality raw materials used make it possible to reach torques far higher than any of those specified in the relevant DIN standards:

- DIN 5261 for PH/PZ bits,
- DIN 5263 for slotted bits,
- Camcar standard for TORX bits

That means a long life at high torques and hence ideal conditions for standard situations.

The benefits:

- Suitable for all types of screws. Because of their excellent hardness values of 59-61 HRC, they are suitable for use with both manual and power tools.
- Good wearing resistance and thus a long life expectancy.
- Optimum fit in all DIN screws means low wear and optimum torque transmission.
- Manufactured to meet professional quality criteria according to relevant ISO standards with a consistently high standard of quality.

General ordering data

Type	BIT E6,3 T20 X 150	Version
Order No.	2821510000	Mounting tool
GTIN (EAN)	4064675359050	
Qty.	50 pc(s).	

DMS PRO

Weidmüller torque screwdrivers have an ergonomic design and are therefore ideal for use with one hand. They can be used without causing fatigue in all installation positions. Apart from that, they incorporate an automatic torque limiter and have a good reproducibility accuracy.

General ordering data

Type	DMS PRO	Version
Order No.	1479120000	Mounting tool
GTIN (EAN)	4050118287011	
Qty.	1 pc(s).	