

PSSYSTEMEC GMBH: SMARTBOX IO



Physical Properties

Programming Interface	AT commands
Switchboard Installation (DIN rail mounting)	Yes
Device Size	(100 x 70 x 45) mm
Weight	89g
IP Class 1st Digit	2 - Protected against solid objects over 12.5mm e.g. hands, large tools.
IP Class 2nd Digit	0 - No protection
Operating Temperature	-20°C / 60°C
Storage Temperature	-40°C / 85°C
Operating Humidity	max. 85%
Storage Humidity	max. 85%
Number of SIM Slots	1
SIM Type	2FF

Electrical Characteristics

External Voltage	12 - 24 V DC
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System Characteristics

Flash	5 MB
RAM	2 MB

Connectivity

2G	Yes
3G	Yes
4G	Optional
NB-IoT	Optional
LTE-M	Optional

Antennas

GSM Antenna Connector (number)	1
GSM Antenna Connector (standard)	SMA

I/O

RTC	Yes
USB	Yes (mini USB inside of housing)
RS 232	Yes
RS 485	Yes
Digital In	10
Analog In	10
Supported Analog Inputs	<ul style="list-style-type: none"> • 0...5V • NTC • PT1000 • 0...10V
Others	Digital Input - low side



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Internal Sensors

Accelerometer Optional

Protocol Layers / Frameworks

Modbus RTU Yes

Positioning Technologies

GLONASS Optional

GPS Optional

Certification

CE Yes

Directive for Radio Equipment RED

RoHS Yes

WEEE Yes

WEEE valid for DE

FCC Yes

Cloud of Things

Connectivity with CoT MQTT

SmartREST Yes

SmartREST Prefix PSSystemec_SMARTbox_XID<number>

Cloud Fieldbus Yes

Safety and Security

TLS 1.2

Encryption mechanisms AES

Contact

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