

# PSSYSTEMEC GMBH: SMARTBOX BLE



## Physical Properties

Programming Interface	AT commands
Switchboard Installation (DIN rail mounting)	Yes
Device Size	(70 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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## Antennas

GSM Antenna Connector (number)	1
GSM Antenna Connector (standard)	SMA
WiFi/Bluetooth antenna connector (number)	1 (BT)
WiFi/Bluetooth antenna connector (standard)	SMA

## Sensors and IO

Accelerometer	Optional
GPS	Optional
RTC	Yes
USB	Yes
RS 485	Yes
Digital In	7
Digital Out	2
ADC	Yes
DAC	Yes
Analog In	1
Analog Out	1
Supported Analog Inputs	0...20mA
Others	GPS feature needs to be activated in Smartbox. Therefore feature is optional. DIN/DO configurable.



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## Connectivity

2G	Yes
3G	Yes
4G	Optional
NB-IoT	Optional
LTE-M	Optional
IEEE 802.15.1 (BT sensors can be connected)	Yes
Supported Bluetooth Version	5.0
Bluetooth Low Energy (BLE)	Yes
Bluetooth GATT	Yes

## Supported Protocol Layers / Frameworks

Modbus TCP	Yes
Modbus RTU	Yes

## 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	_ <xid&gt;< td=""></xid&gt;<>
Cloud Fieldbus	Yes

## Safety and Security

TLS	1.2
Encryption mechanisms	AES

## Contact

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