

PSSYSTECH GMBH: SMARTBOX NANO



Physical Properties

Programming Interface	AT commands
Device Size	(100 x 53 x 28) mm
Weight	89 g
IP Class 1st Digit	6 - Totally protected against dust ingress.
IP Class 2nd Digit	5 - Protected against water projected by a nozzle (6.3 mm) against enclosure from any direction.
Operating Temperature	-20 °C / 60 °C
Storage Temperature	-20 °C / 85 °C
Operating Humidity	max. 85 %
Storage Humidity	max. 85 %
Number of SIM Slots	1
SIM Type	<ul style="list-style-type: none">• 2FF• 4FF• mFF

Electrical Characteristics

External Voltage	5V DC, optional 24V via M8 connector
Internal Battery	Yes
Battery Composition	LiPO
Lithium Share	standard delivery accu: 1.8g (1,67%), option primary cell: LiMnO2 2.0g
Battery Capacity	accu: 6000 mA, primary cell: 16500 mA (optional)

System Characteristics

Processor	ARM
Flash	5 MB
RAM	16 MB

Connectivity

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

Antennas

GSM Antenna Connector (number)	only internal antenna
GSM Antenna Connector (standard)	only internal antenna
GPS antenna connector (number)	only internal antenna
GPS antenna connector (standard)	only internal antenna
WiFi/Bluetooth antenna connector (number)	optional internal antenna
WiFi/Bluetooth antenna connector (standard)	optional internal antenna



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I/O

RTC	Yes
USB	Yes
RS 232	optional
RS 485	optional
Digital In	optional: 1
Analog In	optional: 1
Supported Analog Inputs	<ul style="list-style-type: none">• 0...20mA• 4...20mA• 0...10V• NTC
Others	Laser ranging sensor (Option1: Laser Range d200, Option 2: Laser Range d400)

Internal Sensors

Accelerometer	Yes
Internal 3D G-Sensor	Yes
Internal Temperature Sensor	Yes
Internal Humidity Sensor	Yes

Protocol Layers / Frameworks

Modbus RTU	Optional
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Positioning Technologies

GLONASS	Yes
GPS	Yes

Certification

CE	Yes
Directive for Radio Equipment	RED
RoHS	Yes
WEEE	Yes
WEEE valid for	DE
FCC	Optional
Other Certificates	IC and FCC available for devices with Telit HE910-GL and ME910C1-WW

Cloud of Things

Connectivity with CoT	REST
SmartREST	Yes
SmartREST Prefix	PSsystemec_SMARTbox_nano_XID1

Safety and Security

TLS	1.2
Encryption mechanisms	AES

Contact

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