

Teltonika: TRB145

SENSORS AND INTERFACES

Accelerometer	
3D G sensors	
GNSS (GPS)	
GLONASS (GPS)	
Real time Clock	
Temperature Sensor	internal
LAN/Ethernet	
USB	1x Micro-USB
RS 232	
RS 485	1
NTC	
PT1000	
0...10 V	
4...20 mA	
I2C Bus	
Digital In	1
Digital Out	1
CAN	
LIN Bus	
1-Wire	
SPI	
Analog to Digital Converter	
Audio In/Out	
SIM-Slot	1 slot x 2FF
Processor	ARM Cortex-A7 1.2 GHz CPU
Storage	128 MB DDR2 RAM, 512 MB Flash
Other Interfaces/sensors/comments	

CONNECTIVITY

GSM	Yes
2G	EMEA: B3, B8 LATAM: B2, B3, B5, B8
3G	EMEA: B1, B8 LATAM: B1, B2, B5, B8
LTE	EMEA: (LTE-FDD): B1, B3, B7, B8, B20, B28;(LTE-TDD): B38, B40, B41 LATAM: (LTE-FDD): B1, B2, B3, B4, B5, B7, B8, B28; (LTE-TDD): B40
GSM connectivity in areas with poor signal	
Fixed Line Connectivity	No
Bluetooth	No
WLAN	
Other	Virtual NIC via Micro-USB connector

PROTOCOL LAYER/Framework

Ethernet/IP	Internet connectivity over USB virtual network interface
Modbus TCP	
Modbus RTU	Yes
CAN Bus	
OPC-UA	
Rockwell	
Siemens Logo	
Siemens S7	
Other	



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PHYSICAL DEVICE CHARACTERISTICS

Maximum Device Size	60 mm x 70 mm x 18 mm
Switchboard Installation	Yes
DIN Rail mounting	Yes
Maximum IP Class	IP30
Operating Temperature	-40 °C to 75 °C
Storage Temperature	-45 °C to 80 °C
Operating Humidity	10 % to 90 % non-condensing
Storage Humidity	5 % to 95 % non-condensing

ELECTRICAL CHARACTERISTICS

Rechargeable battery	No
Usage with one battery (capacity)	No
Power Supply	9-30 VDC
Other	Possible to connect with rechargeable battery or UPS through Mean Well

CERTIFICATION

CE and WEEE	Yes
E-mark	
FCC	
ECE	
IC	
RCM	
RED	Yes
R&TTE	N/A
PTCRB	
Lithium Battery CB	
Other Certificates	Anatel, EAC, RoHS, REACH, Ukraine UCRF



CONTACT

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CLOUD OF THINGS USE CASE

Dependent on the implemented agent (project specific)	
Self-registration	Yes, initial registration manual
Reboot device	Yes
Measurement values	Yes
Update device data	Yes
Update device configuration	Yes
TLS support	Yes
Connection continuation	Yes
Events will be sent to client	Yes
Alarms will be sent to client	Yes
Tracking data will be sent to backend	
Configuration settings can be changed via CoT	
Remote Control	WebUI, SMS, SSH, CLI, RMS, SNMP, JSON-RPC, Microsoft Azure, Cumulocity IoT, Cloud of Things, Telenor MIC, ThingWorx
Stability Test	Yes
Firmware over the air updates	Yes

