

## iID® Gateway Ezurio MG-100

### IoT BLE to Cellular Gateway

- transmits data from TELID®7 BLE sensors to iID® cloud
- automatic operation with minimal configuration effort
- uses global cellular IoT technologies LTE-M and NB-IoT
- optional TLS & AES-128 encryption for secure data transmission
- built-in backup battery

Microsensys' iID® sensor monitoring technology offers a seamless solution from data acquisition to IoT platform. iID® Gateway Ezurio MG-100 provides the link between Bluetooth Low Energy sensors and the cloud. The gateway offers a very simple set-up paired with high flexibility, high security of data transmission and a built-in battery ensuring operation for up to 3 days in case of power outages.



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This data sheet is subject to change.  
Picture may differ from original product.  
DS-Gateway Ezurio MG-100-001.docx

### Wireless Interface BLE:

RF Communication:  
Carrier Frequency:  
Operating Modes:  
Antenna Type:  
Communication Distance:

TELID®7 long range identification and sensor system  
Bluetooth Low Energy 5.0  
2.4GHz ISM band (2.402 – 2.480 GHz)  
Coded PHY (Long Range), 1M PHY, 2M PHY  
external omnidirectional antenna, SMA connector, 50 Ω  
0 ... 100 m, on sensor and environmental conditions

### Wireless Interface Cellular:

SIM Card Format:  
Narrowband Standard:  
LTE Frequency Bands:  
Antenna Type:  
Sensitivity LTE-M:  
Sensitivity NB-IoT:

multi-band cellular operation for world-wide use  
nano SIM  
LTE-M (Cat-M1), NB-IoT (Cat-NB1)  
1, 2, 3, 4, 5, 8, 12, 13, 20, 28  
external omnidirectional antenna, SMA connector, 50 Ω  
-105 dBm  
-114 dBm

### Data Privacy:

Security Features BLE<sup>1</sup>:  
Security Features Cellular<sup>1</sup>:

AES-128 encryption  
TLS certificate (HTTPS)

### Mechanical / Environmental:

Housing  
Protection Class:  
  
Working Temperature:  
Storage Temperature:

110.28 mm x 99.16 mm x 35.32 mm  
no IP rating  
contact microsensys for IP6x rated enclosure application note  
-20 °C ... +60 °C  
-20 °C ... +60 °C, recommended 25 °C

### Energy Source:

Input Voltage:  
Power Connector:  
Recommended Power Supply:  
Build-In Battery:  
Battery Backup Time:

4.35 V – 5.5 V  
micro-USB  
5 V, 2 A  
rechargeable Li-Ion, 2600 mAh, 18650 size  
depending on usage

### Operation:

Transmission Protocol BLE:  
Transmission Protocol Cellular:  
Data Synchronisation Interval:

TELID®7 beacon protocol  
UDP, MQTT  
15 minutes, other options on request

### Ordering information:

Product Code:

A5.560.000.01

<sup>1)</sup> on request