WSNet Gateway

GLC 100E

The all-new WSNet Gateway GLC 100E acts as a media converter between the sensor / actuator end devices in the WSNet and the local network (Ethernet). The configuration as a Con-centrator Gateway with up to eight simultaneously usable receivers allows communication and control of up to several hundred terminals in parallel.

Based on the future-proof LoRa ™[1] LPWAN technology, WSN Gateway GLC100E offers compelling ad-vantages in terms of range, penetra-tion, immunity and power consump-tion.

The gateway is easy and flexible to configure and administrate. Due to the robust and dust-tight housing (protection index IP6) it is also possi-ble to use it in harsh industrial envi-ronments.

Functions

- Data bridge between WSNet Gate-way and IP network (Ethernet)
- Integrated Message Management Center (MMC)
- Bidirectionality: Simultaneous re-ception and transmission of radio telegrams
- Software interfaces:
  - Node-RED

  - MQTT
  - SOAP
  - HTTP
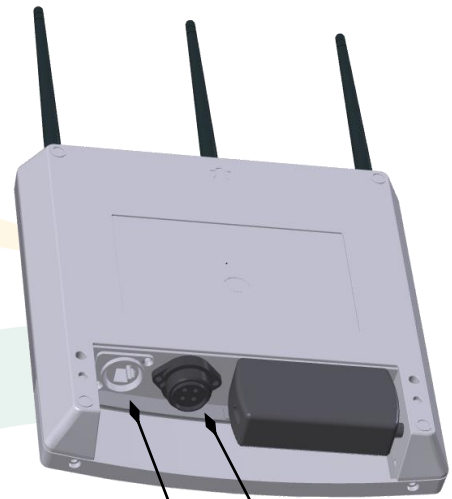 - Dashboard
  - WSNet

Technical Specifications

- Main processor: Intel Atom E3826

- Clock rate: 1.46 GHz

- RAM: 2 GB DDR3L

- Permanent memory: microSD

  card, industry standard 32 GB MLC

  Flash (-40 ° to +85 ° C)

- Radio technology LoRa LPWAN

  868 MHz

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[1] 1 LoRa™, LoRa™ Alliance and LoraWAN™ are registered exclusive trademarks of Semtech Corporation.

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- o   3 external antennas (l = 140 mm)
- o   Receive: 1 x LoRa concentrator
- o   Transmit: 2 x LoRa modem
- o   Bandwidth: up to 500 kHz
- o   Data rate: up to 27 kbps
- Operating system: Oracle Linux, compatible with Red Hat Enterprise, own kernel v. 4.11, on request with update service to latest Linux Mainline Stable kernel
- Transmission power: <= 14 dBm
- Power consumption: approx. 10 W
- achievable ranges:
  - o   up to 15 km (rural area)
  - o   up to 3 km (urban area)
  - o   up to 1 km (indoor)
- ambient temperature range:
  - o   0 ° C to + 55 ° C
- ambient rel. humidity:
  - o   0 to 90% (non-condensing)
- passive cooling (fan-less)
- Industrial housing class IP6
- Dimensions: 220x220x50.5 mm (without antennas)
- Connectors
  - o   1 RJ45 Gigabit Ethernet GbE
  - o   3 SMA antenna sockets
  - o   1 DC-input 4-pin 5 V (dust-tight)

- Quick Start Guide
- CE declaration of conformity

Input 5 V DC

Gigabit Ethernet

Delivery Scope

- Gateway
- Power supply 100-230V / 5V 4A

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