

WebdynSun

Gateway for solar plants

The WebdynSun gateway is used to monitor and collect data from solar plants. In a single device, this gateway gathers all the indicators of the inverters, the electricity meters and the environmental sensors (intensity of sunlight, temperature, wind speed, etc.).

The device formats the data in CSV and sends it periodically via mobile networks, Ethernet or telephone network (STN) to a server. Installation is simple and user-friendly using the embedded web server, and it can be done remotely. It allows to operate local actions controlling files from the central server.



Main Features



4G/3G/2G



RS485/
RS422



TIC
meter



Analog
inputs



Digital I/O



Ethernet



DIN rail



Plug
& Play



Remote
configuration



Alarms

■ HARDWARE ■ SOFTWARE

Strenghts & Benefits

- Up to 200 inverters monitored per gateway (depending on models/brands)
- Very low consumption of data on mobile networks
- Aggregation of the parameters at a single point
- Real-time supervision
- Optimization of electricity production efficiency
- Modbus and Sunspeg (most known in solar apps.)

Applications

- Real-time monitoring of electricity production
- Preventive and curative remote maintenance of the plant

Specifications

WebdynSun 4G	WebdynSun 3G
4G: LTE-FDD B1/ B3/ B5/ B7/ B8/ B20/ B28; LTE-TDD B38/ B40/ B41; 2G: GSM B2/ B3/ B5/ B8	3G: 2100/900 MHz 2G: 900 MHz
LTE-FDD Data Rate (Mbps): 10 (DL)/ 5 (UL) LTE-TDD Data Rate (Mbps): 7.5 (DL)/ 1 (UL)	
GPRS Data Rate (kbps): 85.6 (DL)/ 85.6 (UL)	
EDGE Data Rate (kbps): 236.8 (DL)/ 236.8 (UL)	

Interfaces

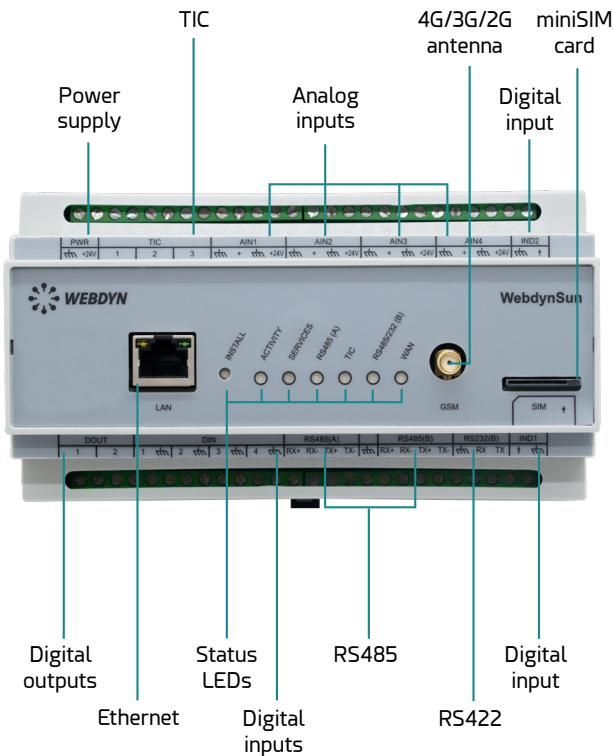
- 4G/3G/2G connectivity
- 1x RS485
- 1x RS485/RS422
- 3x TIC meters
- 4x analog inputs
- 6x digital inputs
- 2x digital outputs
- 1x Ethernet

Connectors

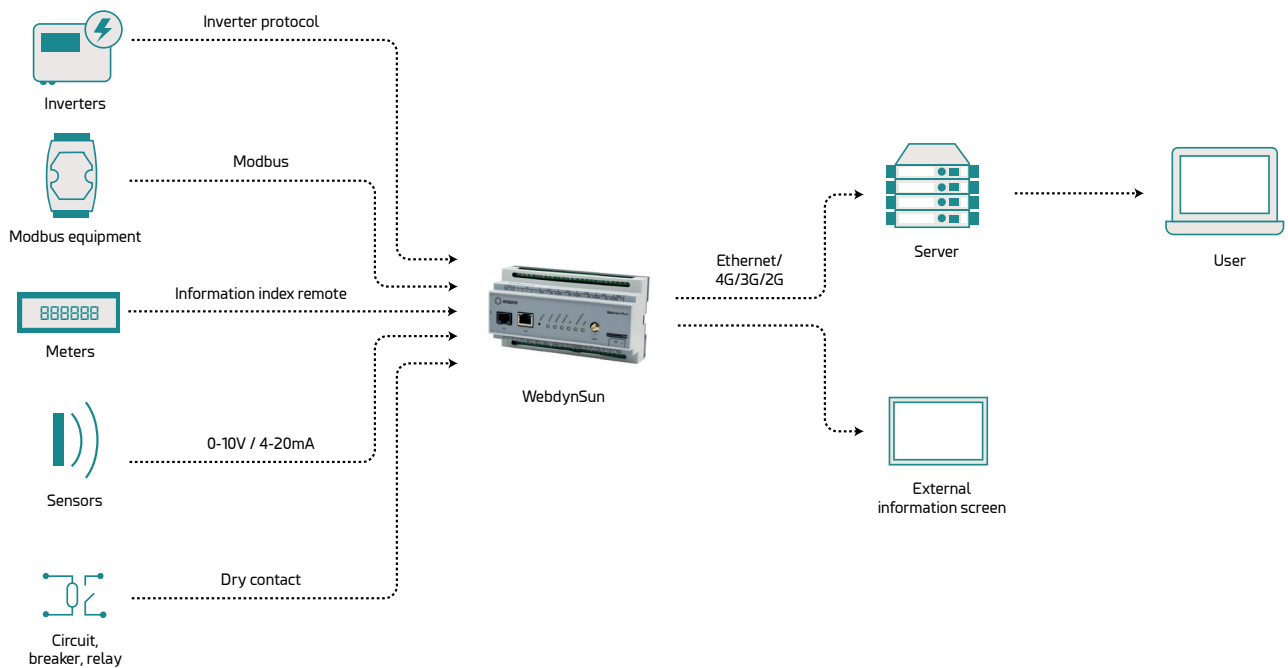
- 1x SMA F connector: GSM
- 1x RJ45: Ethernet
- 2x terminal blocks: power, RS485/422, TIC, analog inputs, digital I/O
- 1x miniSIM card holder

Characteristics

- Status LEDs
- DIN rail
- DC input: +12 to +24 Vdc
- Consumption: 4W max.
- Temperature range: -5 - 50°C
- Storage temperature: -20 - 85°C
- Dimensions: 157x86x59mm
- Weight: 300gr
- Certifications: EMI: EN55022 class B, CE: EN50082



Architecture



Software Features

- Inverters (possible to manage more than 200 inverters depending on models/brands)
- Modbus RTU or TCP slaves supervision
- Environment (sunlight, temperature, etc.)
- S0 pulse meters (Class A and B)
- Dry contact inputs (circuit breakers, break-in, etc.)
- PLCs
- Electric grid management system (DEIE, etc.)

References

PRODUCTS

■ WebdynSun Ethernet 2G/3G Europe	WG0508-A05
■ WebdynSun Ethernet 2G/3G World	WG0508-A06

ACCESSORIES

■ Din Rail 24V DC	AC0103-00
■ Bi-band deported antenna with 5m cable	AC0201-01
■ Bi-band deported antenna with 10m cable	AC0201-03
■ Bi-band deported antenna with 20m cable	AC0201-02

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