

# 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 Sunspec (most known in solar apps.)

## Applications

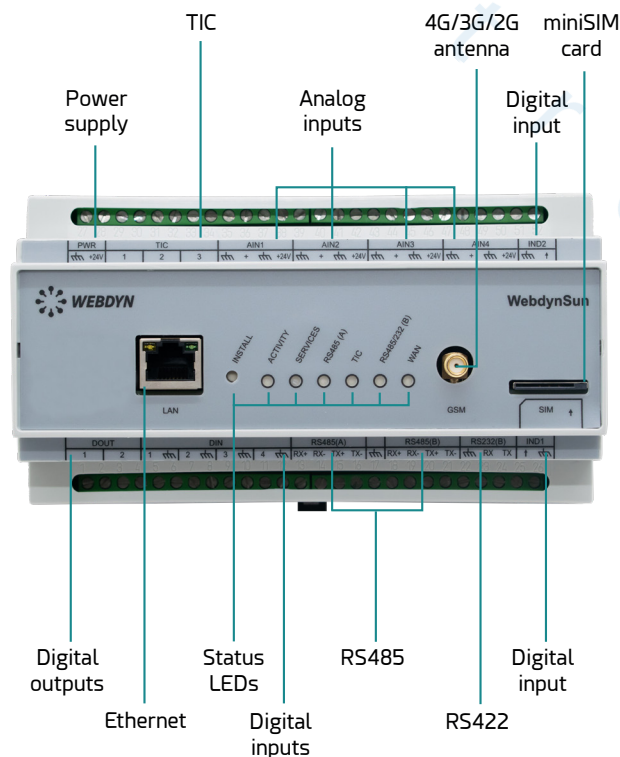
- Real-time monitoring of electricity production
- Preventive and curative remote maintenance of the plant

# Specifications

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



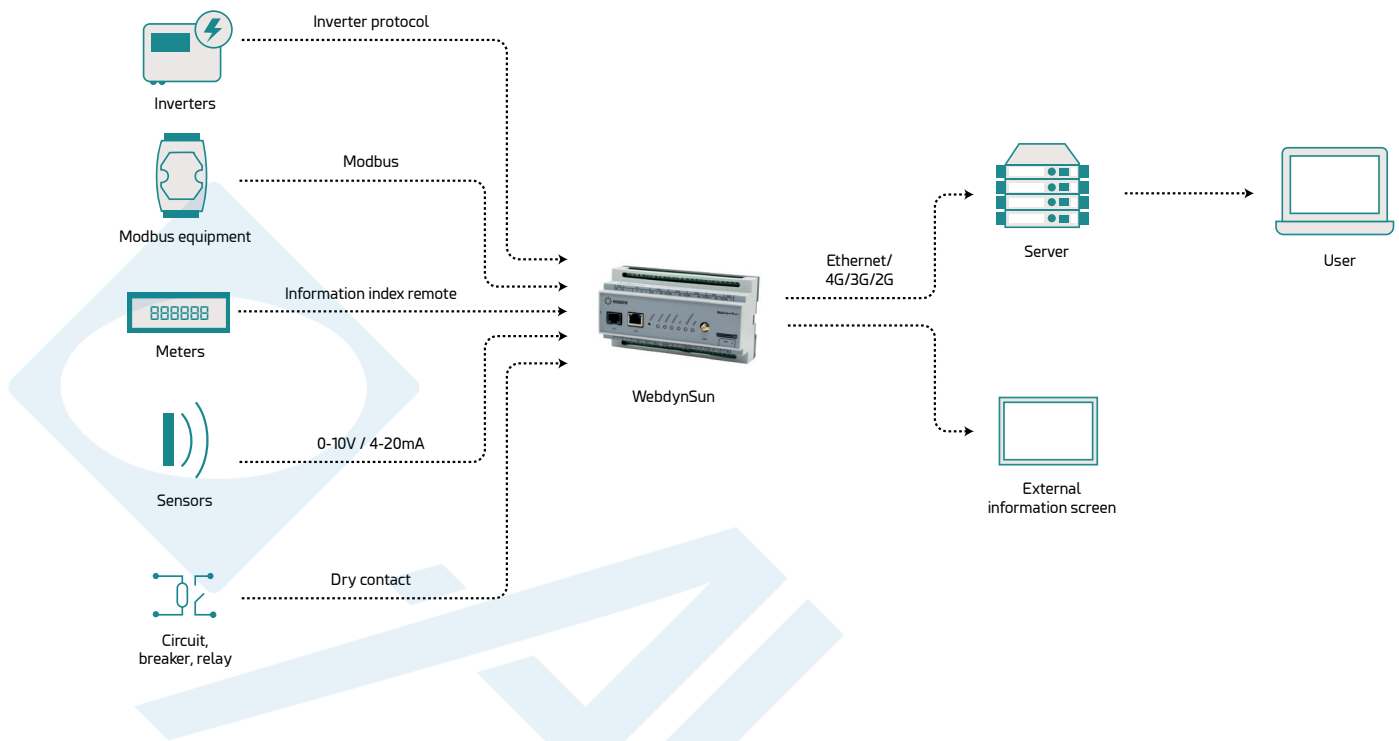
## Connectors

- 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

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## 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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