

WebdynSunPM

Gateway for solar plants with Power Management

The WebdynSunPM gateway is used to monitor and control photovoltaic installations by collecting, analyzing and modifying the equipment parameters. Define your scenarios to modulate the energy injected to the grid, optimize energy storage or manage your own consumption. Installation and programming is simple and user-friendly using the embedded web server or remotely. It is compatible with any platform, being able to send the data to one or two FTP servers, or backing it up locally on a micro SD card. The production management functionality is valid for self-consumption, storage, etc.



Main Features

 4G/3G/2G	 Ethernet	 RS485	 0-10V 4-20mA	 Digital inputs	 Relay	 USB	 DIN rail
 Remote configuration	 Alarms	 Power management	 SunSpec compliant	 MQTT/s	 HTTP/s webdav	 FTP/ SFTP*	 SMS config.

*Based on login and password.

■ HARDWARE ■ SOFTWARE

Strengths & Benefits

- Compatible with commercially available inverters
- Easy inverter autodiscovery
- Very low data consumption on mobile networks
- Two possible destination servers, redundancy
- Optimization of production output
- Data security
- Remote configuration

Applications

- Real-time monitoring of electricity production
- Local action automation
- Local/remote maintenance (alarms, troubleshooting, correction)
- Power Management. 0 injection to the grid

Specifications

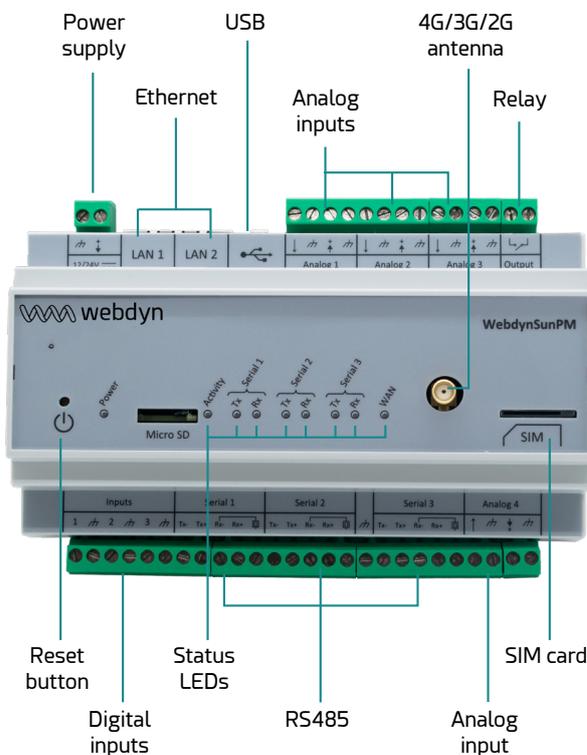
WebdynSunPM 4G	WebdynSunPM 3G
4G: LTE-FDD B1/ B3/ B5/ B7/ B8/ B20/ B28	3G: 2100/900 MHz
2G: GSM/EDGE B2/ B3/ B5/ B8	2G: 900 MHz
LTE-FDD Data Rate (Mbps): 10 (DL)/ 5 (UL)	
GPRS Data Rate (kbps): 85.6 (DL)/ 85.6 (UL)	
EDGE Data Rate (kbps): 236.8 (DL)/ 236.8 (UL)	

Interfaces

- 4G/3G/2G connectivity
- 3x RS485
- 4x analog inputs
- 3x digital inputs
- 1x relay
- 2x Ethernet (web interface, server connection)

Connectors

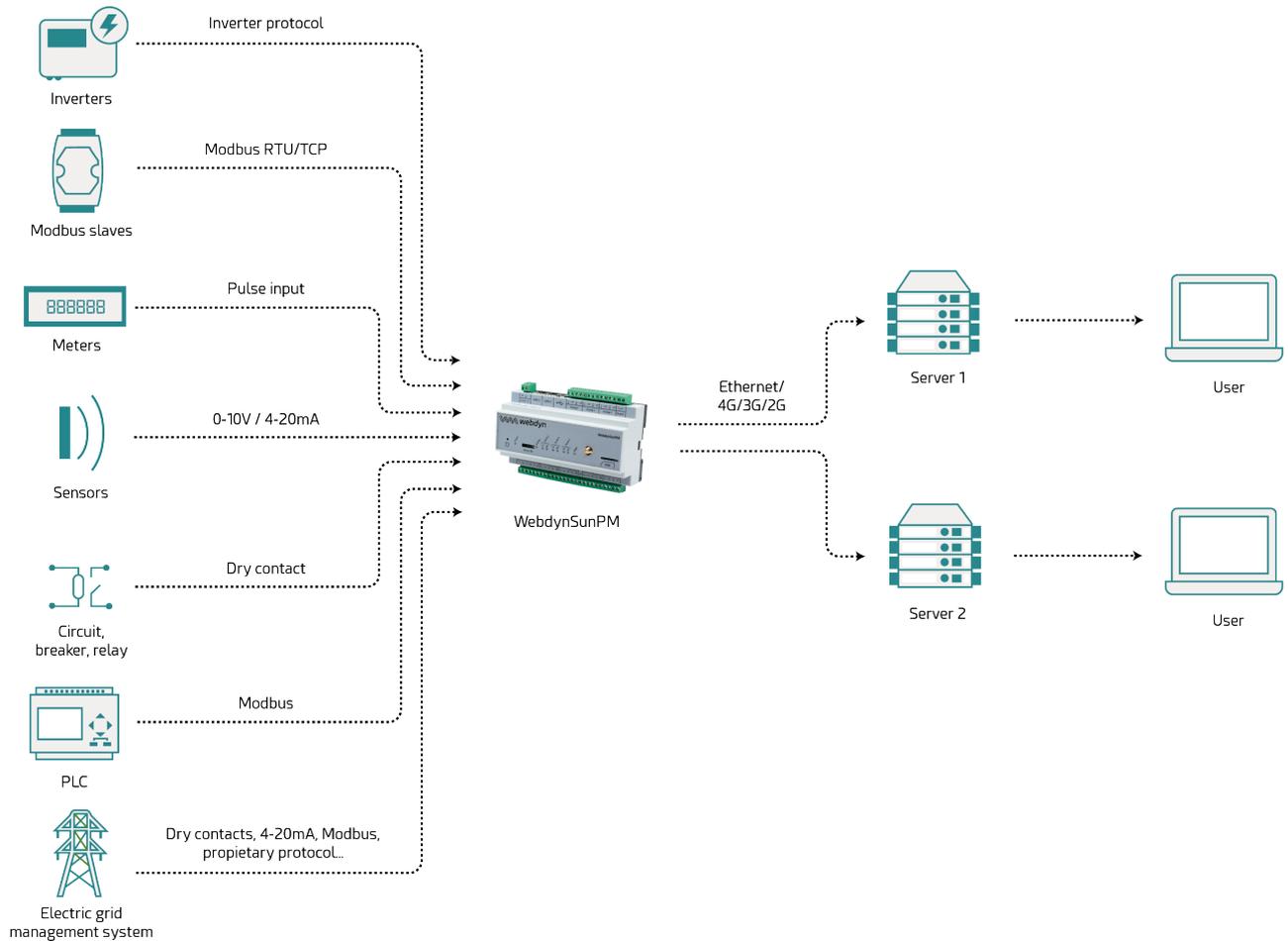
- 1x SMA F connector: 4G/3G/2G
- 2x RJ45: Ethernet
- 1x USB
- 2x terminal blocks: power, RS485/422, pulse inputs, analog inputs, relay
- 1x SIM card holder



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: 157x108x59mm
- Weight: 340gr.
- Certifications: RED, RoHS, REACH

Architecture



Software Features

- SunSpec automatic detection
- Inverters (possible to manage more than 200 inverters)
- Modbus RTU or TCP slaves supervision
- Environment (sunlight, temperature, etc.)
- 50 pulse meters (Class A and B)
- Dry contact inputs (circuit breakers, break-in, etc.)
- Relays
- PLCs
- Electric grid management system (DEIE, etc.)

References

PRODUCTS

- | | |
|---|-------------------|
| ■ WebdynSunPM 4G/2G version Europe, India | WG0517-A04 |
| ■ WebdynSunPM Ethernet 2G/3G EMEA | WG0517-A01 |
| ■ WebdynSunPM Ethernet 2G/3G Worldwide | WG0517-A02 |
| ■ WebdynSunPM 4G | WG0517-A04 |

ACCESSORIES

- | | |
|--|------------------|
| ■ Antenna GSM5+LTE700/2600 SMA M -IP67- RG58 - 5m | AC0201-11 |
| ■ Antenna GSM5+LTE700/2600 SMA M -IP67- RG58 - 10m | AC0201-13 |
| ■ Antenna GSM5+LTE700/2600 SMA M -IP67- RG58 - 20m | AC0201-12 |

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