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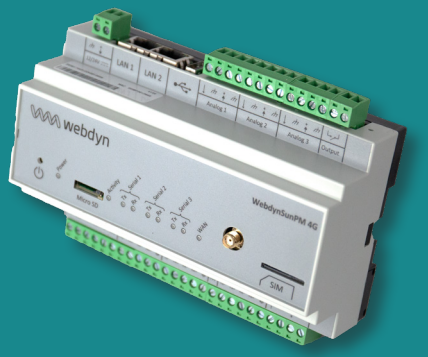
WebdynSunPM

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 SOFWARE

Strenghts & 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

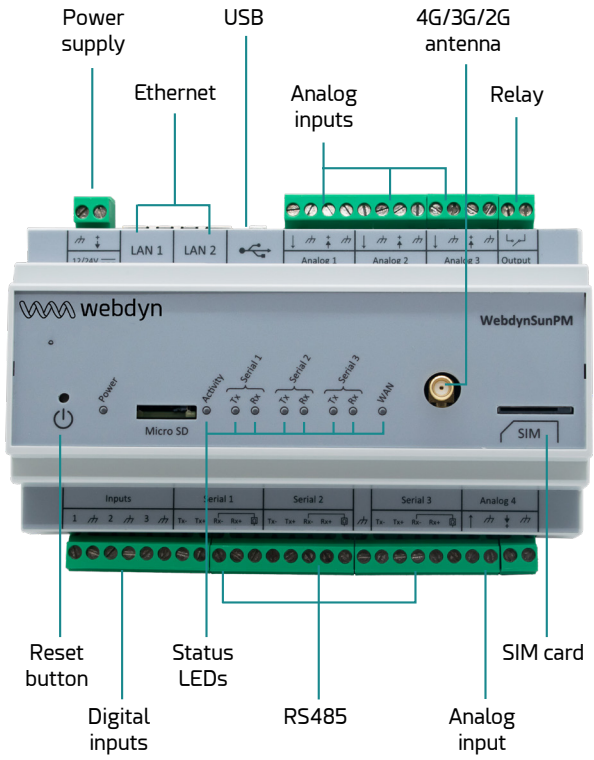
contact@webdyn.com | webdyn.com
V1.1 subject to changes | Webdyn © by Flexitron Group

Specifications

WebdynSunPM 4G	WebdynSunPM 3G
4G: LTE-FDD B1/ B3/ B5/ B7/ B8/ B20/ B28 **2G:** GSM/EDGE B2/ B3/ B5/ B8	**3G:** 2100/900 MHz **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)



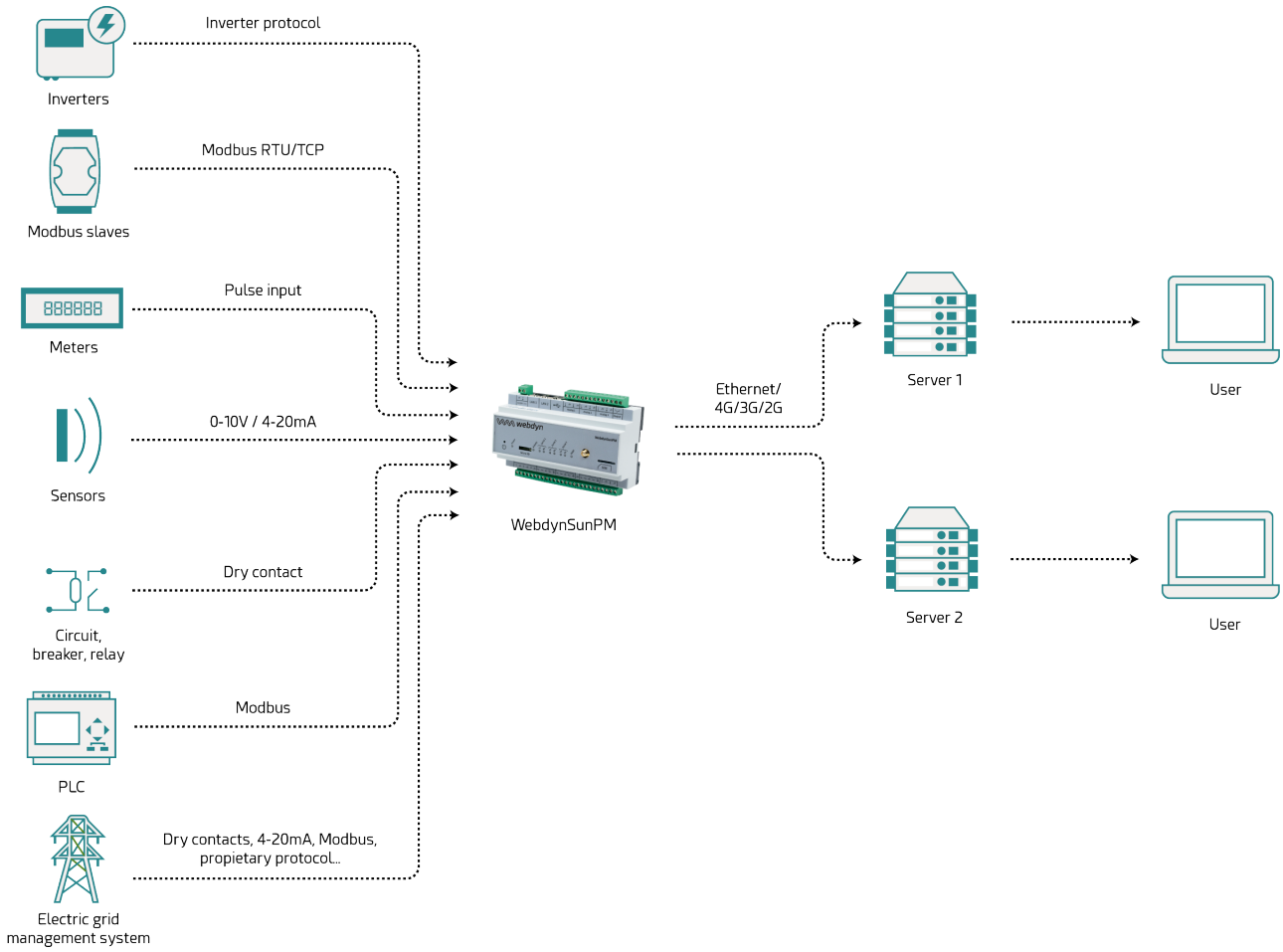
Connectors

- 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 - 50ºC
- Storage temperature: -20 - 85ºC
- 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.)
- S0 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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The equipment may vary from the description in this document. Webdyn reserves the right to make changes to the product(s) and or information contained herein without notice.
This document may not be considered as a contract specification.