



Monitoring and communications VSN300 Wifi Logger Card

The VSN300 Wifi Logger Card is an advanced expansion board for FIMER's UNO and TRIO string inverters which provides residential and commercial users with an advanced and cost-effective solution for monitoring the performance of their photovoltaic system.

The VSN300 Wifi Logger Card is easy to install, for new and most existing string inverters³⁾ by using the inverter's internal expansion slot.

The built-in IP networking connectivity and innovative Wi-Fi commissioning techniques enable this card to be easily configured for most Wi-Fi networks and access points without installing any additional external devices.

Complete, remote and local monitoring with Wifi Logger Card and mobile app.

Users have a complete remote and local monitoring experience when combining VSN300 Wifi Logger Card with FIMER's mobile app; "Plant Viewer for Mobile", available for both iOS and Android based devices.

The local web server in VSN300 Wifi Logger Card adds the ability to use a standard web browser to access inverter data.

The Wi-Fi Certified™ mark assures interoperability, security, easy installation and reliability.

With innovative commissioning and upgrade features, the VSN300 Wifi Logger Card provides the best user experience for FIMER's customers.

Not only is the VSN300 Wifi Logger Card suitable for most of FIMER's string inverters³⁾ currently deployed, but it also takes advantage of the Hyperlink bus found in new inverters for obtaining real-time data that can be used for grid control power management.

Highlights

- The Wi-Fi Certified™ mark assures interoperability with IEEE 802.11b/g/n networks over the 2.4 GHz band
- Easily installed on new and existing UNO and TRIO string inverters
- IEEE 802.11b/g/n (2.4 GHz) support
- Local and remote monitoring in one solution
- High performance non-volatile data logging
- High-speed inverter data exchange through Hyperlink [where available]
- Modbus TCP server for SCADA integration
- SunSpec certified Modbus mapping for easy integration
- Secured and encrypted data transfer to Aurora Vision Plant Management Platform
- Remote reading of inverter parameters for advanced operations
- California Rule 21 ready

Application with VSN300 Wifi Logger Card

Plant Viewer for Mobile



VSN300 Wifi Logger Card



Aurora Vision Plant Management Platform



Wi-Fi Router



Technical data and types

Type code	VSN300 Wifi Logger Card
Communication interfaces	
Inverter interface	Hyperlink (CAN@1 Mbps + RS485@115 kBaud) / Legacy (Serial link TTL @ 19.2 KBaud)
User interface	Wi-Fi Certified™ IEEE 802.11 b/g/n (2.4 GHz)
Communication protocols	
LAN/WAN Protocols	HTTPS, DHCP, NTP, SSL, SSH, XML, Modbus TCP (Sunspec)
Monitoring	
Web user interface (WUI)	Integrated
Local monitoring	Wirelessly allowed via any Wi-Fi device connecting the integrated WUI or running Plant Viewer for Mobile
Remote monitoring	Plant Portfolio Manager® / Plant Viewer™ / Plant Viewer for mobile / Energy Viewer
Data logging specifications	
Data sampling rate	High frequency data sampling (1 minute sample rate)
Local data storage	Log data for 30 days based on 15-minute intervals
Upgradeability	Remotely via Aurora Vision Plant Management Platform / locally via integrated Web User Interface ²⁾
Advanced functionalities	
Remote O&M operations	Inverter's parameters setting ³⁾ / inverter's firmware upgrade ³⁾
Smart grid functionalities	Grid control power-management enabled ³⁾
Power supply	
DC power supply output	~ 2 W
Environmental parameters	
Ambient temperature range	[-20: +85]°C
Environmental protection	IP20
Relative humidity	< 85% non-condensing
Mechanical parameters (per unit)	
Dimensions (H x W x D)	105 mm x 46 mm x 16 mm (4.1" x 1.8" x 0.6")
Weight	0.026 kg (0.06 lbs)
Mounting System	Inverter's expansion slot
Warranty	
Standard warranty	Two years
Compliance	
Marking	CE / RCM / Wi-Fi Certified™
Emissions	47 CFR FCC Part 15 Subpart C, EN 55022 Conducted and radiated emission
Immunity	EN55024

Inverter matrix compatibility

Inverter family	Monitoring	Remote O&M Operations ⁴⁾
UNO-2.0/2.5-1	Yes	No
PVI-3.0/3.6/4.2-TL	Yes	No
UNO-2.0/3.0/3.6/4.2-TL	Yes	Yes
PVI-3.8/4.6-TL	Yes	No
PVI-5000/6000-TL	Yes	No
PVI-6.0/8.0-TL	Yes	No
UNO-7.6/8.6	Yes	Yes
PVI-10.0/12.5-TL	Yes	No
TRIO-5.8/7.5/8.5-TL	Yes	Yes
TRIO-20.0/27.6-TL	Yes	No
PRO-33.0-TL	No	No
TRIO-50.0/60.0-TL	Yes	Yes

1) Please refer to the document "Accessories compatibility matrix" available at www.fimer.com for information on the compatible models and/or devices.

2) Available from FW version FW 1.8.x

3) Check for availability

4) Inverter's parameters setting and inverter's firmware upgrade (from FW version 1.8.x)

Remark. Features not specifically listed in the present data sheet are not include in the product



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