

WIFI LOGGER CARD

GENERAL SPECIFICATIONS

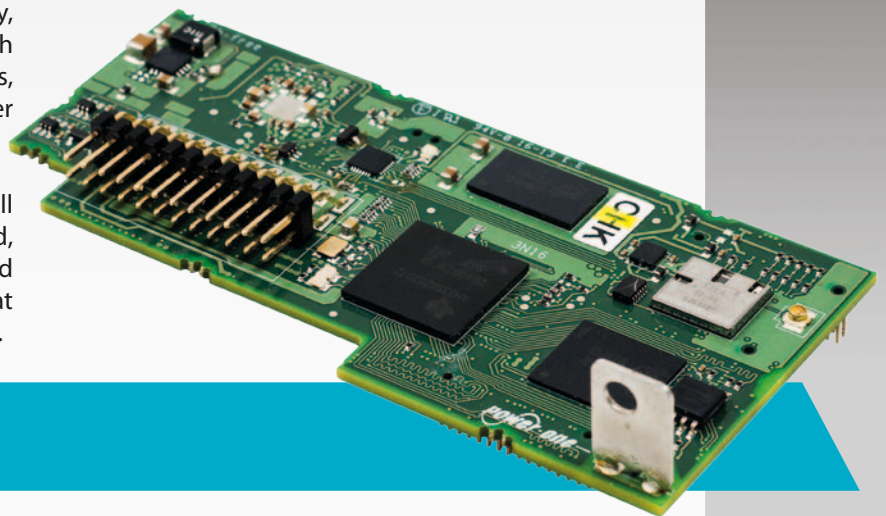
The WIFI LOGGER CARD is a new expansion board for Power-One's string inverters which provides residential and commercial users an advanced and cost-effective solution for monitoring and controlling their photovoltaic system.

A member of Power-One's communication card family, the WIFI LOGGER CARD features easy installation coupled with the lowest cost monitoring solutions to new and existing string inverters by utilizing the expansion slot.

Thanks to direct IP connectivity and the Wi-Fi configuration techniques, this card can be easily configured for most Wi-Fi networks, without installing any additional data logger or gateway. The internal web server allows the card to also act as a local monitoring solution by using Power-One's new mobile APP from a smart phone, essentially providing the user with a complete remote and local monitoring experience.

Standard functionalities assures Interoperability, security, easy installation, and reliability. With innovative commissioning and upgrade features, the WIFI LOGGER CARD provides the best user experience for Power-One's customers.

Not only is the WIFI LOGGER CARD suitable for all of Power-One's string inverters currently deployed, but it takes advantage of the Hyperlink bus found in new inverters for obtaining real time data that can be used for grid control power management.



Features

- Easily installed on new as well as exiting Power-One's string inverters
- Local and/or remote monitoring in one solution
- High performance data logging
- Hi-Speed inverter data exchanging through Hyperlink [where available]
- Reading and writing of inverter parameters for advanced remote operations (inverter's FW upgrade; customer SCADA commands);
- Modbus TCP Sunspec compliant
- HTTPS support for encryption of user data
- Linux based architecture

APPLICATION WITH WIFI LOGGER CARD

AURORA MOBILE APP



AURORA VISION® / AURORA EASY VIEW™
web platform



WIFI LOGGER CARD



WI-FI router



INTERNET

Block Diagram

PARAMETER	WI-FI CARD
Communication	
Inverter Interface	Hyperlink (CAN@1 Mbps + RS485@115 kBaud) / Legacy (RS232 TTL @ 19.2 KBaud)
User Interface	Wi-Fi IEEE 802.11 b/g/n
Communication Protocols	
LAN/WAN Protocols	HTTPS, DHCP, NTP, SSL, SSH, XML, Modbus TCP (Sunspec)
Data Logging	
Web User Interface	Integrated
Local Monitoring	via Power-One mobile App
Remote Monitoring	via Aurora Vision® / Aurora Easy View™ web platform
Data Logging Specifications	
Data Sampling Rate	High frequency data sampling (less than 1 minute average)
Local Storage	Log data for 30 days based on 15-minute intervals
Upgradeability	Field upgradable over the Internet or locally
Advanced functionalities	
Inverter's parameters	remote reading & writing operations allowed
Inverter's firmware	remote upgrade allowed
Inverter's power management	Grid control power-management enabled
Power Supply	
DC Power Consumption	~ 2W
Environmental Parameters	
Ambient Temperature Range	[-20; +85] °C
Environmental Protection	IP 20
Relative Humidity	<85% Non-condensing
Mechanical Parameters (per unit)	
Dimensions (H x W x D)	3.81' x 1.81' x 0.63' (97 mm x 46mm x 16mm)
Weight	0.06 lbs (26g)
Mounting System	inverter's expansion slot
Compliance	
Marking	CE
Emissions	FCC Part 15 Class B, CISPR 22, EN 55022 Conducted and Radiated Emission;
Immunity	EN55024

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

INVERTER MATRIX COMPATIBILITY		
INVERTER FAMILY	LEGACY INTERFACE	HYPERLINK INTERFACE
UNO-2.0	YES	
UNO-2.5	YES	
PVI-3.0	YES	-
PVI-3.6	YES	-
PVI-3.8	YES	-
PVI-4.2	YES	-
PVI-4.6	YES	-
PVI-5000	YES	-
PVI-5000	YES	-
PVI-6.0	YES	-
PVI-8.0	YES	-
PVI-10.0	YES	-
PVI-12.5	YES	-
TRIO-5.8	-	YES
TRIO-7.5	-	YES
TRIO-8.5	-	YES
TRIO-20.0	YES	-
TRIO-27.6	YES	-

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