



MODEL: VSN300s
FCC ID: X6W-VSN300S

VSN 300s – General Connectivity Module is a factory optionally assembled communication board proper to be used for instance on PVS inverter series but not limited to this product family.

This communication board provides the following features:

- Wireless bidirectional communication 802.11 b/g/n compliant;
- Dual mode, access point + station;
- Data logging capabilities;
- 4GByte Flash disk storage;
- Integrated web server
- Dual LAN ports for Ethernet connectivity
- USB ports for expanded connectivity
- ADC/PWM/LCD support

It is a pluggable board directly connected to PVS logic board through a dedicated connector.

Its installation on inverter is typically done by the factory, but when installed as a spare part in a repairing process, the installation has to be executed by trained personnel only.

The board is powered by the inverter.

Proper connector for antenna is available on board.

The board uses a Murata LBEP5CLXRC-701, an 802.11b/g/n WLAN module built around the Texas Instruments WL1801 chipset.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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Technical data are in following table.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Installer should take care that Regulatory Label applied on the Host Equipment includes the following: Contains FCC ID: X6W-VSN300S.

This device shall be used such that a minimum separation distance of 20cm/7,87" is maintained between the radiator (antenna) and user's/nearby people's body.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Item	Value	Note
Product name	VSN300s	General Connectivity Module
Connections		
Connection to PVS Logic board	314-pin edge-finger on PCB	Power + Inverter Hyperlink + Interfaces
Connection on PVS Logic board	Standard MXM 3.0 connector	
Input / Output		
RF	802.11 b/g/n	UFL connector
COMM	3 x UART, 2 x CAN	
USB	4 x USB 2.0 + USB OTG	
ETHERNET	2 x LAN ports 100Mbit/s	
ADC	8 x 12-bit channels	
LCD support	1 x 24-bit TTL for passive LCD	
Other	1 x SPI, 1 x I2C, 1 x I2S, 1 x PWM	
Supply		
Power supply	From the inverter logic board, 12VDC, 24VDC typ.	
Physical		
Environmental Protection Class	Bare pcb to be assembled into PVS inverters	
Dimensions mm (HxDxW)	90mmx40mmx5mm (SMD top and bottom)	
Installation	Inverter shall be completely powered off for at least 5 minutes to let any voltage reduced to a safe level; plug in the board; secure the board to the provided stand offs by screws.	Installation and operation shall be executed by trained personnel only. Please read this instructions before operate installation or dismantling.
Antenna	2.4 GHz with Swivel RP-SMA, 105 mm long by 10.0 mm diameter (bottom side), 3.32 dBi (peak) gain @ 2500 MHz.	Antenna is assembled on the Host Equipment, and secured to the U.FL Coaxial Connector (J2) soldered on the VSN300s.
Certifications		
Marking	FCC ID X6W-VSN300S	
Safety and EMC Standard	FCC part 15	

