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Date: March 2024

Product Name and Part Number

Xantrex Gateway (808-1888)

Contact Information

Telephone:	+1-800-670-0707 (Toll Free USA/Canada) / +1- 408-987-6030 (Outside USA/Canada)
Email:	customerservice@xantrex.com
Web:	https://xantrex.com/support/get-customer-support/

Information About Your System

As soon as you open your product, record the following information and be sure to keep your proof of purchase.

Serial Number ______ Product Number ______ Purchased From ______ Purchase Date

Abbreviations and Acronyms

AC [~]	Alternating Current, Mains
CAN	Controller Area Network bus protocol
DC []	Direct Current
EMC	Electromagnetic Compatibility (emissions and immunity)
EMI	Electromagnetic Interference source (emissions only)
IP	Ingress protection rating (example: IP20 is for Indoor Use only)
kW	Kilowatts (1000 watts)
LED	Light Emitting Diode
PN	Product Number
RV-C	Recreational Vehicle (Caravan) CAN Bus Communications protocol
SD	Secure Digital
SSID	Service Set Identifier
V, VAC, VDC	Voltage, Volts AC, Volts DC
V, V~, V 	

Product Safety Information

NOTICE

RISK OF ELECTRIC SHOCK AND EQUIPMENT DAMAGE

- Connect communication circuits only to Safety Power Source Class 1 (PS1) circuits. This device connects to a 9-58V_____ battery source through the two-pin battery terminal (see Connection Terminals on page 8).
- Do not expose the Xantrex Gateway to rain, snow, spray, or bilge water. For indoor use only.
- Do not disassemble. No user serviceable parts inside.
- Do not install and/or operate in compartments containing flammable materials or in locations that require ignitionprotected equipment.

Failure to follow these instructions may result in injury or equipment damage.

EMI / EMC Information

This device complies with part 15 of the FCC Rules and contains a licence-exempt transceiver that complies with ISED Canada's licence-exempt RSS 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.

These limits are designed to provide reasonable protection against harmful interference in a residential environment. 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:

- 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.

Contains:

FCC ID: 2ABCB-RPI4B

IC: 20953-RPI4B

Unauthorized changes or modifications to the equipment could void the user's authority to operate the equipment.

End of Life Disposal

The Xantrex Gateway is designed with environmental awareness and sustainability in mind. At the end of its useful life, the Xantrex Gateway can be decommissioned and disassembled. Components which can be recycled must be recycled and those that cannot be recycled must be disposed of according to local, regional, or national environmental regulations including the WEEE Directive.

Many of the electrical components used in the Xantrex Gateway are made of recyclable material like steel, copper, aluminum, and other alloys. These materials can be auctioned off to traditional scrap metal recycling companies who resell reusable scraps.

Electronic equipment such as the circuit boards, connectors, and fuses can be broken down and recycled by specialized recycling companies whose goal is to avoid having these components end up in the landfill.

For more information on disposal, contact Xantrex.



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1 INTRODUCTION

The Xantrex Gateway is a single-box communications hub from Xantrex that is capable of interfacing with a number of Xantrex inverters, chargers, inverter/chargers, lithium-ion battery BMS, and solar charge controllers. You can connect your smart phone or tablet to the Xantrex Gateway in two ways; (1) using Bluetooth and the Xantrex App or (2) via its Wi-Fi access point and access its embedded Web Application called *xantrexapp.com*, to monitor, control and change settings on any of the connected devices.

This chapter includes the following topics:

Materials List	7
Connection Terminals	8
Port Pin Assignments	9
LED Status Indicators	9

Materials List

The Xantrex Gateway package includes the following items:



Α	Xantrex Gateway		
в	microSD card reader		
С	power supply 2-pin connector with pigtail, 14–28 AWG (0.2–1.5 mm ²)		
D	Quickstart guide		
E	2x mounting screws 6-201/2" (or equivalent)		
F*	PN: 808-1889 Harness RV-C CAN 4-pin to RJ45 XGW (RV-C) PN: 808-1890 Harness RJ45 to MPPT XGW (Modbus) PN: 808-1891 Harness Micro-C to RJ45 XGW (NMEA2000) PN: 808-1892 Harness 20-pin to RJ45 XGW (RV-C)		

NOTE: If any of the items are missing, contact Xantrex or any authorized Xantrex dealer for replacement. See *Contact Information on page 2.*

Connection Terminals



Α	Ethernet port for wired internet connection.		
B C	5V 0.5A USB host ports ${\rm \AA}$ Use to connect to the Gateway Touchscreen device. May also be used to connect a mouse and keyboard.		
D	RJ-45 RV-C (CAN) port - connect to a compatible RV-C (CAN) device such as a compatible Xantrex Freedom EX unit, Xantrex Freedom XC PRO unit, or a Xantrex Battery (PN: 884-XXXX-XX only). \triangle If the Xantrex Gateway device is the end device of an RV-C (CAN) network, then you must turn on the CAN terminator switch. Refer to Activate RV-C Internal Terminator.		
E	Battery input power supply terminal (connect using the supplied 2-pin connector power cable to a 9- 58V power source only).		
F	micro-SD card slot for the supplied micro-SD card $\hat{\mathbb{A}}$ Do not remove the micro-SD card.		
G	Reset button - press to restore the Wi-Fi SSID and password to factory settings.		
н	RJ-45 RS-485 Modbus port - connect to an RS-485 Modbus device such as a Xantrex MPPT Solar Charge Controller (SCC)		

L	RV-C (CAN) bus port - connect to an auxiliary device such as a compatible RV controller, a Xantrex
	Freedom EX unit, a Xantrex Freedom XC PRO unit, or a Xantrex Battery (PN: 884-XXXX-XX only).

J HDMI port

 ${\rm \AA}$ Use to connect to the Gateway Touchscreen or another HDMI monitor.

Port Pin Assignments

NOTE: Match port pin assignments to connector pins carefully.



A	Pin 1: +12_CAN Pin 2: NC Pin 3: GND Pin 4: CAN1_RV-C_L	Pin 5: CAN1_RV-C_H Pin 6: GND Pin 7: +12_CAN Pin 8: GND	RJ-45 port [RV-C (CAN)]	
в	CAN_L			
С	СОМ		NMEA 2000 [Micro-C (CAN)] port	
D	CAN_H			
Е	CAN_Shield			
F	COM CAN_L		RV-C (CAN) port	
G				
н	CAN_H			
Т	Battery neg(–), GND		Detter i terminele for neuer	
J	Battery pos(+)		battery terminals for power	
к	Pin 1: NC Pin 2: NC Pin 3: RS485-B Pin 4: RS485-B	Pin 5: RS485-A Pin 6: RS485-A Pin 7: NGnd Pin 8: NGnd	RJ-45 port [RS-485 (Modbus)]	

LED Status Indicators



Power	Green	The Xantrex Gateway is connected to a 9-58V battery as its main power source.		
	Off	The Xantrex Gateway is disconnected from its main power source.		
Status Off A Reserv		${\hat{\mathbb{T}}}$ Reserved for future use.		
Wi-Fi	Green	The Xantrex Gateway is connected to the Wi-Fi network.		
	Off	No Wi-Fi connection is detected		
CAN	Green	CAN device is detected.		
	Off	No CAN device is detected.		
Modbus	Green	Modbus device is detected.		
	Off	No Modbus device is detected		

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2 INSTALLATION

Before beginning your installation, read this entire chapter, assemble all the tools and materials you require, and be aware of all safety and electrical codes which must be met when installing as part of a power system.

This chapter includes the following topics:

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Freedom Combox Wiring	
Freedom XC PRO Inverter/Charger Wiring	
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Freedom EX Inverter/Charger Wiring	16
MPPT Solar Charge Controller Wiring	



Consider the following suggestions for mounting.

- Locate the Xantrex Gateway as close as possible to its power supply.
- Thick walls, metallic objects, and other communication devices may interfere with the signal and affect signal strength. See Notice below.
- Avoid exposure to direct sunlight.
- Be at least within 20 feet (6 m) to obtain the best possible Wi-Fi signal from the Xantrex Gateway.

NOTICE

WI-FI INTERFERENCE

Place the Xantrex Gateway away from other Wi-Fi devices such as a wireless modem (if present) at least 2 feet (0.6 meter) from each other.

Failure to follow these instructions can produce interference in communications.



System Installation Diagram

This diagram illustrates a system installation that represents a complete and well-integrated Gateway network for your vehicle or vessel.

Figure 1 Typical Vehicle Communication Network

A The solid lines are the communication cables. The dotted lines are electrical power connections. Use the installation guide for each power system device.



Power Source Wiring

Attach battery cables to the 2-pin connector before plugging the connector to the Xantrex Gateway.

A The Xantrex Gateway has no power switch.

▲ You can connect only one power source. The Xantrex Gateway has no power switch. As long as the Xantrex Gateway and the Freedom X | XC | XC PRO | EX unit are connected and the Freedom X | XC | XC PRO | EX is connected to a battery, the Xantrex Gateway will receive power.

Α	Xantrex Gateway	Е	10A fuse/fuseholder
В	Power port 2-pin connector (supplied)	F	Battery disconnect device AA Keep the disconnect device open to prevent energizing the Xantrex Gateway.
С	Battery pos(+) cable	G	Battery
D	Battery neg(–) cable		

Gateway Touchscreen Wiring

NOTE: Consult the Gateway Touchscreen installation guide for more information.

Α	Xantrex Gateway	С	HDMI cable (supplied with the Touchscreen)
В	USB-A to Micro-USB cable (supplied with the Touchscreen).	D	Gateway Touchscreen device

Freedom Combox Wiring

NOTE: Consult the Freedom Combox Owner's Guide for more information.

Α	Freedom ComBox	С	Network cable (supplied) - 4-pin to RJ45 connectors
В	Xantrex Gateway		

Freedom XC PRO Inverter/Charger Wiring

NOTE: Consult the Freedom XC PRO inverter/charger Owner's Guide for electrical connections to batteries, AC source, and loads.

▲ CAN network termination may be required. See how to activate it using the web app Activate RV-C (CAN Network) Internal Terminator..

A Multiple devices can be connected using a network hub (not supplied) employing a star network topology. However, do not connect these devices in a daisy chain configuration.

Α	Xantrex Gateway	С	Harness 20-Pin to RJ45 XGW (RV-C) (PN: 808-1892)
В	Optional Freedom XC PRO inverter/charger		

Xantrex Battery Wiring

NOTE: Consult the Xantrex Battery Owner's Guide for electrical connections.

▲ CAN network termination may be required. See how to activate it using the web app Activate RV-C (CAN Network) Internal Terminator..

 ${\ensuremath{\underline{\mathbb{A}}}}$ Multiple devices can be connected using a network hub (not supplied) employing a star network topology. However, do not connect these devices in a daisy chain configuration.

Α	Xantrex Gateway	D	DEUTSCH 12-pin harness (not supplied). Splice the connector to one end of the patch cable.
В	RV-C port RJ-45 connector (not supplied).	ш	Xantrex Battery (PN: 884-XXXX-XX series only)
С	Patch cable with RJ-45 connector on one end (not supplied). Terminate the other end of patch cable with the appropriate connector.		

Freedom EX Inverter/Charger Wiring

NOTE: Consult the Freedom EX inverter Owner's Guide for electrical connections to batteries, AC source, and loads.

▲ CAN network termination may be required. See how to activate it using the web app Activate RV-C (CAN Network) Internal Terminator..

⚠ Multiple devices can be connected using a network hub (not supplied) employing a star network topology. However, do not connect these devices in a daisy chain configuration.

Α	Xantrex Gateway	D	RJ-45 connector (not supplied).
В	CAN port RJ-45 connector (not supplied).	Е	Optional Freedom EX inverter/charger
С	Patch cable (not supplied)	F	Network terminator (not supplied)

MPPT Solar Charge Controller Wiring

NOTE: Consult the Xantrex MPPT Solar Charge Controller Owner's Guide for electrical connections to batteries, solar panel, and loads.

Α	Xantrex Gateway	С	Harness RJ45 to MPPT XGW (Modbus) (PN: 808-1890)
В	Optional Xantrex MPPT Solar Charge Controller		

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3 CONFIGURATION

This chapter explains how to operate the Xantrex Gateway and configure devices using its web application interface. This chapter includes the following topics:

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Xantrex Gateway Settings	
Xantrex Gateway Software	31

Xantrex App Connection

Requirements: iPhone/iPad (iOS version 11 or newer), Android phone/tablet (Android version 7.0 or newer)

Wi-Fi Connection

Requirements: iPhone/iPad (iOS version 11 or newer), Android phone/tablet (Android version 7.0 or newer), modern laptop with Wi-Fi and browser.

How to	Steps
Connect to the Xantrex Gateway Wi-Fi.	 Make sure that the Xantrex Gateway is powered. Observe the Power LED and be sure it is on.
	2. Open your smart phone, tablet, or laptop and navigate to its Wi-Fi settings.
	 Search for the Xantrex Gateway SSID in the list of Wi-Fi networks. SSID: "XGW123456", where 123456 is the serial number of your device.
	 Enter the factory default password and tap Join or Connect. Password: "12345678".
	 Once joined or connected to the Xantrex Gateway, proceed to Web Application on page 24.
	${\mathbb A}$ Do not connect to guest Wi-Fi networks.

Requirements: Wi-Fi connection for all smart devices. Compatible operating systems such as iPhone/iPad (iOS version 11 or newer) and Android phone/tablet (Android version 7.0 or newer).

How to	Steps
Open the XantrexApp web application [<i>xantrexapp.com</i>].	 Setup and connect to the Xantrex Gateway Wi-Fi hotspot. See Wi-Fi Connection on page 23. Open the XantrexApp web application from your smart phone, tablet, or laptop by using a web browser to go to xantrexapp.com or by aiming the mobile device camera to the QR code above and tapping the link. xantrexapp.com xantrexapp.com Upon initial set up, you will be prompted to change the password and give you a choice to bridge a Wi-Fi network with internet access. Bridging a Wi-Fi network with internet connection allows your smart device continuous access to the internet without losing the Wi-Fi accessed to device to device to device the open the top open the connection give your smart
	Implementation of calculated sectors.

How to	Steps	How to	SI
Create and add the xantrexapp.com Web app icon on an iOS mobile device.	1. From your iOS mobile device, open Safari and go to <i>xantrexapp.com</i> or aim the mobile device camera to the QR code on the left and tap the link. Add Tap from the bottom of the screen. Add to Home Screen	Change the Xantrex Gateway Wi-Fi password.	
Create and add the xantrexapp.com Web app con on an Android mobile device.	 From your Android mobile device, open a web browser and go to <i>xantrexapp.com</i> or aim the mobile device camera to the same QR code on the left and tap the link. Tap Print from the upper right hand corner of the screen. Tap Add to Home Screen 		
Access from a laptop.	1. From your laptop's web browser, go to <i>xantrexapp.com</i> . 2. Press entry.		

Home Screen (System View)

Settings

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Control **Alerts** 1 1 Control screen for a device Alerts screen Inverter mode control. In this Two types of alerts. In this Alerts 2 example it is an inverter/charger example, the Xantrex with a binary switch On or Off. 2 Gateway has detected one Control fault and no warnings as 2— AC Breaker control. In this shown by their badge icons. example it is for an inverter/charger with a Change Alert information. Alert 3 option allowing the user to messages show what device change the setting within a range $2 \rightarrow$ is affected, its model, an of values. See the device's 3 error code, and instructions. 3-Owner's Guide for information. See the device's Owner's Guide for information on NOTE: error codes. Controls vary for each device that is $3 \rightarrow$ 14 A Change connected to the network. NOTE: Only connected devices to the Xantrex Gateway network will have their alerts aggregated in the Xantrex App [xantrexapp.com].

networks nearby.

Xantrex Gateway Software

How to	Steps
Upgrade the Xantrex Gateway software.	 Go to https://xantrex.com/library/firmwares/ and look for available software.
Also, make sure to install on the	 Remove the microSD card from the Xantrex Gateway and insert it into the microSD card reader (included in the Xantrex Gateway box).
software available at:	3. Insert the microSD card reader into your computer.
https://www.raspberrypi.com/software/	 On your computer, open the Raspberry Pi Imager and click Operating System.
	5. Scroll down and click Erase option.
	6. Click Storage and select the SD card from the list.
	7. Click Write and wait for the formatting to finish.
	8. Click on Operating System again and select Use custom.
	9. Select the new software file provided by Xantrex.
	10. Make sure the SD card is selected in Storage and click Write.
	 When the Write command completes, remove the microSD card reader from the computer and then the microSD card from the reader.
	12. Insert the microSD card into the Xantrex Gateway.

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4 TROUBLESHOOTING

This section will help you narrow down the source of any problem you encounter. This chapter includes the following topics:

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Maintenance	

Common Issues

Problem	Cause	Solution	
The Xantrex Gateway's Power LED indicator is not lit up.	The Xantrex Gateway is not receiving power.	Check that the Xantrex Gateway is connected to a Xantrex Battery (9-58V===) which is its main power source. Re-check the Power LED indicator after connecting with the battery.	
The Xantrex Gateway's Wi-Fi SSID is not showing up in the network list of the smart phone or tablet.	The Xantrex Gateway is not receiving power.	Check that the Xantrex Gateway is connected to a Xantrex Battery (9-58V) which is its main power source.	
	The smart phone/tablet or laptop is too far from the Xantrex Gateway.	Stay within the standard Wi-Fi range of 75 ft (~25m).	
The web app [xantrexapp.com] is displaying a " <i>This site cannot</i> <i>be reached</i> ." message.	The smart phone/tablet or laptop was disconnected from the Xantrex Gateway's Wi- Fi network.	Reconnect to the Xantrex Gateway's Wi-Fi network. Stay within the standard Wi-Fi range of 75 ft (~25m).	
The auxiliary RV-C device is not showing on the device list of the web app.	Harness RV-C CAN 4-Pin to RJ45 XGW (RV- C), Harness RJ45 to MPPT XGW (Modbus), Harness 20-Pin to RJ45 XGW (RV-C) is wired incorrectly.	Check that CAN wires are terminated properly and correspond to the PORT (pin) assignments.	

Problem	Cause	Solution
Xantrex Gateway has power but connected devices are not showing on the device list of the web app.	The connected devices may not be turned on or receiving their own power.	Make sure the connected devices are powered and their cable connections to Xantrex Gateway are secure.
The Xantrex App cannot pair with Xantrex Gateway.	The Bluetooth server is not synchronized with the smart phone/tablet.	Unpair the Xantrex App from the smart phone/tablet. Close all open apps on the smart phone/tablet. Redo the pairing process. See <i>Xantrex Gateway Settings on page 30</i> for information.
Connected devices are showing with node_xxx in their device names.	Device instances are duplicated in multiple units.	Configure each connected device by renaming each one to a unique device name.

Maintenance

WARNING

ELECTRICAL SHOCK HAZARD

Do not disassemble the Xantrex Gateway. It does not contain any user-serviceable parts. Attempting to service the unit yourself could result in an electrical shock or burn.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

- Make sure the Xantrex Gateway remains in a dry environment.
- Clean up any accumulated dust or dirt on the unit.
- Check all the wires and cables for insulation damaged. Repair or replace, if necessary.
- Tighten all terminal connections. Inspect for loose or broken wire connections.
- Confirm that all terminals are free from corrosion

5 SPECIFICATIONS

NOTE: Specifications are subject to change without prior notice. This chapter includes the following topics:

Physical Specifications	
Electrical Specifications	
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Electrica	al Specifications
Communication	

interfaces		
RJ-45 port (same side as the battery terminal)	RS-485 Modbus	
RJ-45 port (left hand panel)	RV-C CANbus terminal requires one Harness RV-C CAN 4-Pin to RJ45 XGW (RV-C), Harness RJ45 to MPPT XGW (Modbus), Harness 20-Pin to RJ45 XGV (RV-C) or equivalent: 4-terminals, 16-24AWG, pin assignments to match port assignments.	
Battery terminal	2 pins, 16-24 AWG	
NMEA 2000	NMEA 2000 (Micro-C) terminal requires matching male connector ${\rm \AA}$ Reserved for future use.	
Data Interface Micro SDHC/XC	Micro SDHC/XC 2GB-2TB, FAT32/exFAT. Data storage only.	
Power supply via Battery terminal	 Power input voltage range: 9– 58V Power input current: 3.5A at 12V 	

Compatible Devices Optional Freedom EX inverter/charger/converter - 10 Compatible PN: 820-4080-41 Optional Xantrex Battery Compatible PNs: 884-0310-12/01, 884-0410-12/01, 884-0205-24/01, 884-0100-51 Optional Freedom X inverter with a ComBox Compatible PNs: 817-1000, 817-2000, 817-3000, 817-2000-21, 817-2000-12 Optional Freedom XC PRO inverter/charger 50 GT Compatible PNs: 818-2010, 818-3010 600

To order Xantrex products, contact an authorized Xantrex dealer. The Xantrex Gateway requires one power source.

Xantrex MPPT Solar Charge Controller

Compatible PN: 710-3024-01 (shown), 709-3024-01

Optional

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Regulatory

North America (US, CA)	EMI	CFR 47 (FCC) Part 15B, Class B			
	RF	CFR 47 (FCC) Part 15C, FCC ID: 2ABCB-PRI4B			
		ISED Canada RF, IC	C: 20953-RPI4B		
European Union (EU)	Туре	Regulations		Test Standard	Description
	E-	UN/EU Regulation		ECE A	Automotive EMC –
	mark			R10.06	Regulation 10 - EMC emissions & transients
		Automotive EMC Stan	dard	EN 50498	Automotive Electromagnetic Compatibility (EMC) – Emissions and immunity
European Union (EU)	Туре	Regulations		Test Standa	Description
	CE Markin	g Radio Equipment Directive 2014 / 53	EMC Directive	EN 5503 Class B	32, Electromagnetic Emission
		/ EU	2014700720	EN 5503	85 Electromagnetic Immunity
			Low Voltage Directive	EN/IEC 62368-1	Communication technology
			2014 / 35 / EU		equipment Safety
			Radio Frequency Spectrum	/ EN 3003	328 Data transmission
				EN 623	11 Human exposure
		RoHS"3" Directive		EN 6300	00 Environmental
		2011 / 65 / EU and 2	2015 / 863 / EU		

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