Introduction

The Conext Gateway is a multi-function communication device that provides an overall view of system performance for residential power monitoring systems. It also provides a communications gateway between a network of Xanbus™-enabled devices and Modbus devices. Operators can configure the Conext Gateway system and monitor performance with third party software packages and building management systems.

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, ARC FLASH, AND FIRE

- Connect only to Safety Extra Low Voltage (SELV) circuits and power sources.
- All wiring must be done by qualified personnel to ensure compliance with all applicable installation codes and regulations.
- For Indoor Use Only.
- Do not disassemble. No user serviceable parts inside.

Failure to follow these instructions will result in death or serious injury.

Other features of the Conext Gateway include: compatibility, a real-time clock, a non-volatile memory, firmware storage and upgrade capability, and cloud storage capability. For more information, see the Owner’s Guide (go to https://solar.schneider-electric.com/product/conext-gateway/ > Downloads).

Material List

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Conext Gateway unit</td>
</tr>
<tr>
<td>2</td>
<td>Ethernet cable (CAT5e)</td>
</tr>
<tr>
<td>3</td>
<td>Network terminator</td>
</tr>
<tr>
<td>4</td>
<td>AC/DC power adapter with interchangeable plugs</td>
</tr>
<tr>
<td>5</td>
<td>75 mm DIN rail</td>
</tr>
</tbody>
</table>

NOTE: • Do not discard the packaging box. • The Wi-Fi password is printed on the unit.
• Install the antennas before turning on the unit.

Physical Features

LED Indicators

<table>
<thead>
<tr>
<th>Icon</th>
<th>Color</th>
<th>LED</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>Green</td>
<td></td>
<td>The Conext Gateway is powered on.</td>
</tr>
<tr>
<td>Memory</td>
<td>Green</td>
<td></td>
<td>Device is logging data to internal memory when flashing.</td>
</tr>
<tr>
<td>Comm.</td>
<td>Green</td>
<td></td>
<td>Device is actively transferring data with the cloud.</td>
</tr>
<tr>
<td>Xanbus</td>
<td>Green</td>
<td></td>
<td>Device is actively transferring data with a Xanbus device.</td>
</tr>
<tr>
<td>Modbus</td>
<td>Green</td>
<td></td>
<td>Device is actively transferring data with a Modbus device.</td>
</tr>
<tr>
<td>Event</td>
<td>Red</td>
<td></td>
<td>Devices on the Power system have events to report.</td>
</tr>
<tr>
<td>Wi-Fi</td>
<td>Blue</td>
<td></td>
<td>Wi-Fi connectivity is established.</td>
</tr>
</tbody>
</table>

Exclusion for Documentation

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Contact Information

Schneider Electric Solar Inverters Inc.
3700 Gilmore Way Burnaby BC V5G 4M1 Canada

Contact your local Schneider Electric Sales Representative or visit the Schneider Electric website at http://solar.schneider-electric.com/
Choosing a Location

- You should not run cables through conduits that can be exposed to lightning strikes. The following are recommended maximum cable lengths in a Conext Gateway system:
  - 131 feet (40 m) Total Xanbus network
  - 328 feet (100 m) Router to Conext Gateway
  - 164 feet (50 m) Modbus Master (RS 485) to Conext Gateway

Mounting the Conext Gateway

1. Use a standard 35-mm "top hat" DIN rail (EN50022).
2. You may choose to move the mounting clip to the side as shown.
3. Attach the Conext Gateway to the DIN rail. Hook the bottom catch of the clip onto the rail, pull up a little to release the bottom catch and hook the top catch of the clip onto the rail.
4. Connect the wiring and cables.

Connecting the Conext Gateway to the Xanbus Network

- Connect the Conext Gateway to the Xanbus network using daisy chain configuration.
- Xanbus components can be arranged in any order.
- Use a network terminator at both ends of the network. Do not connect two end devices together to form a closed loop configuration. See illustration in the next column.
- Do not interconnect two separate Xanbus networks, meaning, do not daisy chain one Xanbus network with another. Use only one pair of Xanbus ports for the daisy chain. If you only have one Xanbus network, use Xanbus 1. If you have two separate Xanbus networks connect the second network to Xanbus 2. See Figure 1 for Xanbus 1 pair of ports - one top and one bottom.

Connecting the Conext Gateway to the Internet

Before connecting a computer and router to the Conext Gateway, make sure it meets the following prerequisites:

- Microsoft® Windows® 7 or later, MacOS® X 10.4.8, or later
- Internet Explorer® 11.47.8 or later, Google Chrome™ 78.x or later, Safari® 5.x or later
- JavaScript and cookies must be enabled in your web browser.
- Router - the network router must be able to supply DHCP addresses automatically to connected devices. If your network router does not support automatic DHCP, refer to your network router’s user guide or contact your system administrator.

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Conext Gateway Quick Start Guide

1. Make sure the computer and network router are turned on and the Conext Gateway is not turned on. Make sure the network router selected has DHCP enabled.
2. Connect an Ethernet cable between the computer’s network port and a LAN port on the router.
3. Connect an Ethernet cable between a LAN port on the router and the Ethernet port on the Conext Gateway.

### Turning the Conext Gateway On (or Off)

Before turning on the Conext Gateway, you must connect it to a power source - either:
- by using the (A) AC/DC adapter,
- by connecting it to a (B) Xanbus network, or
- by connecting a (C) 26-pin connector to the 26-pin terminal block.

1. Select a power source (A), (B), or (C).
2. Connect (A), (B), or (C)’s connector to Conext Gateway’s Power port for (A), Xanbus port for (B), or terminal block for (C), respectively.
3. Connect (A)’s power plug to an AC wall outlet or (B)’s other Xanbus cable connector to a Xanbus port on a Xanbus device. Alternatively, connect (C)’s pins 1 & 2 to an energy-limited DC source (9–24VDC).
4. Observe the LED indicators and wait for the Power LED to light up steadily. The Conext Gateway is now turned on.
5. Proceed to Logging in to the Conext Gateway Web Application.
6. Press the Power button to shut down the unit and turn it off.

### Installing Ugrades Remotely

1. From the Conext Gateway Web Application home page, go to Setup > Configuration > Install Package.
2. Download the firmware package.
   - a. Click Get package. This will take you to the Conext Gateway product webpage.
   - b. From the product webpage, go to DOWNLOADS > Firmware.
   - c. Search for the latest firmware package from the list and click to begin downloading.
   - d. Save the .pkg file to a local directory.
   - e. Go back to the Conext Gateway Web Application.
   - f. Click Upload package.

### Logging in to the Conext Gateway Web Application

1. If you have connected the Conext Gateway via Wi-Fi Access Point, go to the IP address https://192.168.100.1 to access the web user interface.
2. If you have connected the Conext Gateway via Ethernet or Wi-Fi Station, use the following steps:
   a. Insert a blank USB drive into the Conext Gateway USB port.
   b. Ensure there are no firmware upgrade files on this USB drive.
   c. After the Conext Gateway beeps twice, remove the USB drive.
   d. Insert the USB drive into your laptop USB port.
   e. Copy the HTML file to your laptop.
   f. Remove the USB drive from your laptop.
   g. Open the HTML file and click the link to the IP address of the Conext Gateway.
3. Bookmark this address. Important: The web address is a locally and privately assigned (LAN) device address that is also protected by a firewall.
4. Select your User Name. Select Admin.

**NOTE:** A maximum of two Admin users can be logged in to one Gateway at the same time. For more information, see Conext Gateway Owner’s Guide (document number 975-0806-01-xx).
5. Enter your Password. The initial password is Admin123.
6. Important: When prompted, change the initial password immediately to protect the device from unauthorized users and to enable changes to device settings.

**NOTE:** To perform administrative functions such as a firmware update, set User Name to Admin. Settings are disabled until the initial password is changed.

### Using the Conext Gateway Web App via Wi-Fi Access Point (AP)

**NOTE:** This procedure is not about connecting to a local area network (LAN) via Wi-Fi. In order to establish a user interface with Conext Gateway, a direct Wi-Fi connection is necessary. The following are the pre-requisites:
- Laptop with Microsoft® Windows® 7 or later, Mac OS X 10.4.8, or later
- Wi-Fi setting for the laptop is enabled
- Web browser such as Google Chrome™ 78.x or later, Microsoft® Windows® Internet Explorer® 11.476 or later, Safari® 5.x or later
- JavaScript and cookies must be enabled in your web browser.

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**Image 1:** Diagram of Conext Gateway and its components.

**Image 2:** Conext Gateway web application interface.

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975-0804-01-04

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November 2019
Connecting and Configuring Modbus Devices

NOTE: For Modbus map information, contact Schneider Electric.

Connect Modbus wires to pins 16, 18, and 20 (see 26-Pin Connector Pinouts), and then complete the following steps in the Conext Gateway web application:

1. Go to Setup > Configuration > Modbus Settings.
2. Complete the Serial Port setup and then click Apply.

4. Under Range, enter a Modbus address range and then click Detect.

5. Go to Devices and then select a device.
6. Go to Configuration and configure the device. Repeat steps 5 and 6 for each device.

FCC Compliance

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.

Electrical Specifications

NOTE: Specifications subject to change without prior notice.

<table>
<thead>
<tr>
<th>NOTICE</th>
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<tbody>
<tr>
<td>EQUIPMENT DAMAGE</td>
</tr>
<tr>
<td>Do not power the unit without first installing the supplied antennas. Failure to follow these instructions can result in equipment damage.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical Specifications</th>
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</thead>
<tbody>
<tr>
<td>Weight (device only)</td>
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<tr>
<td>IP rating / Mounting Location</td>
</tr>
<tr>
<td>Status Display</td>
</tr>
<tr>
<td>Temperature</td>
</tr>
<tr>
<td>Humidity</td>
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<table>
<thead>
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<tbody>
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<td>EMC immunity</td>
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<table>
<thead>
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<th>Dimensions</th>
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<tbody>
<tr>
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</tr>
<tr>
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<tr>
<td>Depth</td>
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