

# Seamless integration of Li-ion batteries

## Conext™ Bridge

Introducing a powerful new control system that seamlessly connects the Conext™ product line with lithium-ion (Li-ion) batteries



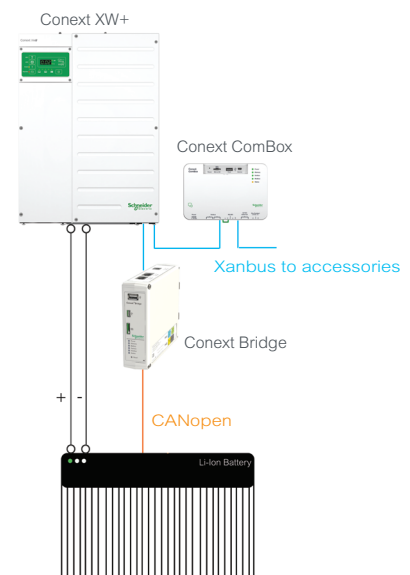
## Solution at a glance

Homeowners and installers will realize the benefits of the efficiency, versatility, and reliability of the Conext family of products with the compactness and longevity of Li-ion batteries in both on-grid and off-grid applications.

- **Migrate to Li-ion:** Conext Bridge enables plug-and-play migration from traditional 48V lead-acid batteries to advanced Li-ion batteries rated at 48VDC nominal.
- **Cost-effective:** Intelligent algorithms built inside Conext Bridge allow the reduction of energy costs, even in regions with time-of-use metering.
- **Flexible:** Conext Bridge is compatible with batteries from multiple manufacturers. It supports backup installations and self-consumption with the option for time-of-use settings.
- **Easy to install:** It is easy to configure using the Conext™ ComBox interface. Auto-configuration of charge parameters based on battery detection makes the installation simple.
- **Easy to monitor:** The integration with Conext ComBox provides a powerful monitoring and system analysis capability.

The Conext Bridge is a collaborative development between Schneider Electric and battery manufacturers, resulting in a proven and robust interface between systems.

Conext Bridge extends the simplicity of plug-and-play XanBus communication to Li-ion batteries, through auto-detection and auto-programming optimal charge settings to Conext products.



# Context Bridge

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### Conext Bridge Applications

Conext Bridge will initially support single Conext™ XW+ inverter and up to two Conext™ MPPT charge controllers and accessories for the following applications:

- Residential backup
- DC coupled residential off-grid
- DC coupled residential self-consumption with time of use (ToU) support

To get a full list of compatible batteries, devices and supported configurations, please refer to the Bridge Compatibility Matrix Document on our website.

### The Conext Bridge will include the following features:

- Auto-detection of supported Li-ion battery and auto-configuration of optimal charge/discharge parameters to Conext inverter / charger and MPPT controllers.
- An easy-to-use interface through Conext ComBox to program even the most complex modes of operations, such as ToU based on state of charge (SoC) in a few clicks for faster commissioning process.
- Acting as a data bridge between Conext ComBox and Li-ion batteries, the Conext Bridge enables end-to-end visibility of your system through Conext ComBox and Conext Insight.
- Display for fault status, fault code and battery temperature / voltage / current / SoC / SoH for more visibility.
- Improvements and additional features released via firmware can be installed through a USB thumb drive.
- Two programmable dry relay contacts enable advanced system integration, such as load management, source transfer and notifications based on battery and system status (SoC, discharge current, BMS alarm, etc.)

### Conext Bridge works with the following Schneider Electric products



Conext MPPT 80 600  
solar charge controller  
Product no. 865-1032



Conext MPPT 60 150  
solar charge controller  
Product no. 865-1030-1



Conext XW<sup>+</sup> inverter / charger  
XW 5548 NA  
Product no. 865-5548-01  
XW 6848 NA  
Product no. 865-6848-01  
XW 7048 E  
Product no. 865-7048-61  
XW 8548 E  
Product no. 865-8548-61



System Control Panel (SCP)  
Product no. 865-1050-01



Conext ComBox  
Product no. 865-1058



Conext AGS  
Automatic Generator Start  
Product no. 865-1060-01



Conext SW inverter / charger  
SW 4048 NA Product no. 865-4048 NA  
4048 SW 4048 E Product no. 865-4048-61

# Technical Specifications

## Conext Bridge

Device short name	Conext Bridge
<b>Electrical specifications</b>	
<b>Communication interfaces</b>	
Xanbus	Connector: 2 x RJ45 (white) Products Supported: Conext™ XW+, Conext SW, MPPT 60-150, MPPT 80-600, AGS, SCP
Ethernet	Connector: 1 x RJ45 (green)
Modbus - RS 485	Connector: Terminal block - Isolated - Manual switch for termination
CAN - Li-ion BMS	Connector: 1 x RJ45 (orange)
<b>Data interfaces</b>	
USB 2.0-Host	Connector: 1 x USB-A 5V, 1.5A (Protocols: MSD (firmware upgrades and device locator))
USB 2.0-Device	Connector: 1 x micro USB-B (Protocols: MSD (advance configurations and settings))
<b>Power supply options</b>	
AC / DC adapter	Input: 100-240Vac, 50-60Hz, 0.6A, Output: 12VDC, 1.5A, 5.5mm outer, 2.1mm center-positive jack DC input
Xanbus	When connected to Conext XW+ / SW or HV MPPT 80 600 providing 15VDC, 200mA min or more
Power Consumption	<2W Typical / 10W Peak
<b>Memory</b>	
Internal	4GB Flash Memory
External	Supplied with 4GB Micro SD card (can be upgraded to larger micro SD card)
<b>General specifications</b>	
Weight	300 g (0.66 lb)
Dimensions (H x W x D)	12.3 x 12.8 x 4.1 cm (4.8 x 5 x 1.6 in.)
Housing / Mounting System	Plastic / DIN-rail: 35 mm, Wall-mount: 2-screw
IP rating / Mounting Location	IP 20, Indoor only
Status Display	6 x LEDs
Temperature	Operating: -20 to 55 °C (-4 to 131 °F) Storage: -40 to 85 °C (-40 to 185 °F)
Part Number	865-0326
<b>Features</b>	
Digital inputs / outputs	2 x 12V/5V DC at 15mA
Dry contact relay (NO.NC) Form 2	2 x 24 VDC, 4A
Buzzer	1
Maximum Supported System Size	Please refer to the Conext Bridge Compatibility Matrix Document on our website for more information
Warranty	5 years
<b>Regulatory</b>	
EMC immunity	EN61000-6-1
EMC emission	EN61000-6-3, FCC Part 15 Class B, Ind. Canada ICES-003 Class B
Substances / environmental	RoHS



For indoor use only

Specifications are subject to change without notice.

#### Exclusion for Documentation

Unless specifically agreed to in writing, seller (a) makes no warranty as to the accuracy, sufficiency or suitability of any technical or other information provided in its manuals or other documentation; (b) assumes no responsibility or liability for losses, damages, costs or expenses, whether special, direct, indirect, consequential or incidental, which might arise out of the use of such information. The use of any such information will be entirely at the user's risk; and (c) reminds you that if this manual is in any language other than English, although steps have been taken to maintain the accuracy of the translation, the accuracy cannot be guaranteed. Approved content is contained with the English language version which is posted at <http://solar.schneider-electric.com>