



ZC-120 RS-485 to Z-Wave Converter

RS-485 (Recommended Standard 485) is a standard maintained by the Electronics Industry Alliance (EIA). RS-485, also known as TIA/EIA-485-A, was created to meet the needs of electronic component designers for longer cable lengths, increased throughput and control of multiple devices.

Z-Wave to RS-485

The unique Z-Wave to RS-485 Converter is created to give the great wireless capability to those existing devices and products built with RS-485 communication ports. It provides an effective means to extend product lines without drastically redesigning existing products and systems. When Z-Wave to RS-485 Converter is used as the wireless link, existing products and systems may be extended with no disruption and easily to be included into a Z-Wave network.

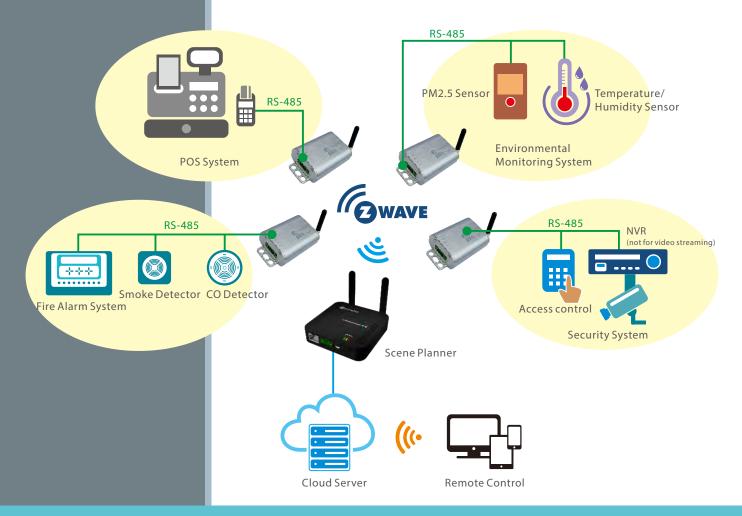
Benefits:

. Include the non-ZWAVE products into a Z-Wave network

- . Ease of use and deployment $\,$
- $. \, Cost\, effective \,$
- . Extended range capabilities
- . Portability
- . Ease and flexibility of installation







ZC-120 RS-485 to Z-Wave Converter

EMPERS' RS-485 to Z-Wave converter is designed to offer the wireless connectivity to those existing products or equipment. With integrated connectivity, users may improve the efficiency, productivity and business benefit from their original management process.

Users may get information feedback from a centralized management system and then quicker to uncover or address any issue. This information helps them to find bugs, monitor equipment, software and firmware updates over-the-air and reduce maintenance and eventually to increase the productivity.

Gain Real-Time Diagnostics

Limit down-time through real-time collection and monitoring of data.

Lower Installation Costs

 $Eliminate\ unnecessary\ wiring\ and\ infrastructure\ costs\ and\ lower\ installation\ times\ dramatically.$

Increase Worker Safety

Increase worker safety and lower insurance rates by using wireless systems and sensors in dangerous work environments.

Reduce Maintenance Costs

Limit the amount of unscheduled, on-site maintenance through remote asset visibility.



Pacaivar cancitivity without CAW filter down to 10EdPm@0.6hns

Features

- ◆ Wall and DIN-rail mounting
- ◆ Plug-in terminal block for easy RS-485 wiring
- ◆ LED indicators for Power, TX, RX
- ◆ RS-485 transceiver (half-duplex) with auto direction

Specification

Radio Z-Wave

Radio Halisceivei	heceiver sensitivity without SAW lifter down to -103dbin@9.0bps
	Transmit mpower without SAW filter up to +6dBm
	Z-Wave 9.6/40/100kbps data rates
	Supports all Z-Wave sub-1 GHz frequency
RS-485 Side	
Connector	Terminal Block
Signals	RS-485-2w: Data+, Data-, GND

RS-485 Data Direction Control ADDC® (Automatic Data Direction Control)

Z-Wave Communication

Baudrate	9.6/40/100kbps data rates
Output Power	-21~+2.5dBm
High Sensitivity	-99dBm@9.6kbit/s, -97dBm@40kbit/s, -93dBm@100kbit/s

Appearance

Dimension	94x56x27mm(LxWxH), 220 Gram
Housing Material	Aluminum
Color	Silver

Environmental Limits Operating

Operating Temperature	-20 to 70°C
Storage Temperature	-40 to 85°C
Ambient Relative Humidity	5 to 95% (non-condensing)

Power Requirements

Source of Input Power	Terminal Block
Input Voltage	12V DC
Input Current	85mA @ 12V DC
ESD Protection	Protects against two signals shorted together

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EMPERS TECH Co., Ltd.

16F-7, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.) Tel: +886-2-8227-1098 Fax: +886-2-8227-1028

E-mail: glen.chiu@empers.com.tw

www.empers.com.tw

- 1. RS-485 connector
- 2. Antenna
- 3. Wall mount
- 4. Pairing button
- 5. LED light

