HUASU

Hangzhou Huasu Technology Co., Ltd

CTB-485WL

Wireless Converter

Specification

https://huasu-tech.com/

Hangzhou Huasu Technology Co., Ltd

Battery Management System Supplier

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BMS Technology Servicing Customer Globally

About HUASU

Hangzhou Huasu Technology Co., Ltd is an innovative high-tech company that specializes in battery monitoring and management. Our products provide a state of the art battery management platform for various industries and use cases while ensuring safety and reliability. Our design are informed by more than a decade of research and development. We are a leader in the battery monitoring industry at both the national and global level.

Real-time & Online Management

Convert wireless communication signal of wireless cell monitoring module to RS485 signal in real time

Core Technology

Adopt a new generation of ZigBee wireless communication technology
Reduce on-site wiring and avoid hidden safety dangers of too many cables
High stability and anti-interference

Capability

1 CTB-485WL module/1 battery string
1 CTB-485WL module max manages 150 wireless cell monitoring modules

Easy Installation

Hot swappable connection, 4-core ports connect to COMB port of control module
With 3M sticker, it can be installed on battery surfaces

Overview

Introduction

CTB-485WL wireless converter (hereinafter referred to as CTB-485WL module) is the industry's leading high-end product. 1 CTB-485WL module is needed for 1 battery string. CTB-485WL module converts wireless communication signal of wireless cell monitoring module to RS485 signal in real time. Each wireless converter up to manage 150 wireless cell monitoring modules.

Powered by control module, its working current is ≤20mA and consumption <0.3W.

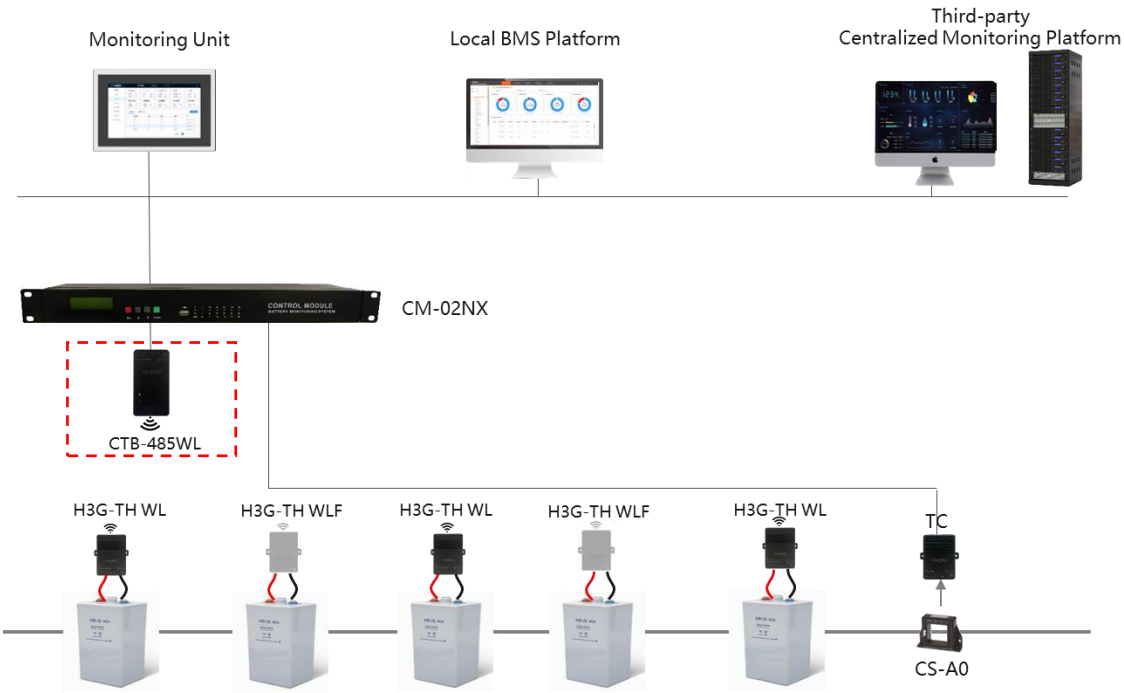
CTB-485WL module is easy for installation. With 3M sticker, it can be installed on battery surfaces.

Application scenarios:

CTB-485WL modules can be applied to H3G-TA WL, H3G-TH WL system or customized system.

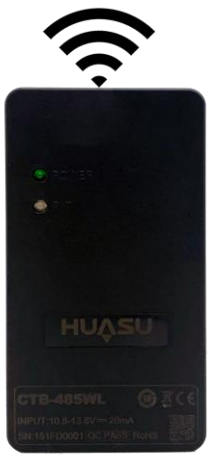
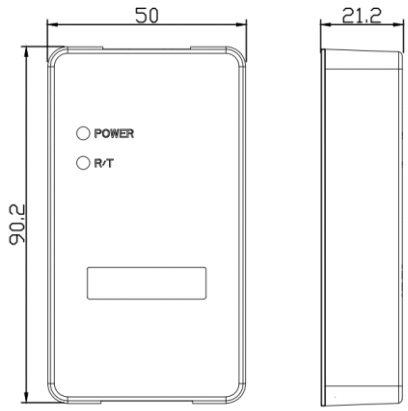
Topology

***Typical application topology**

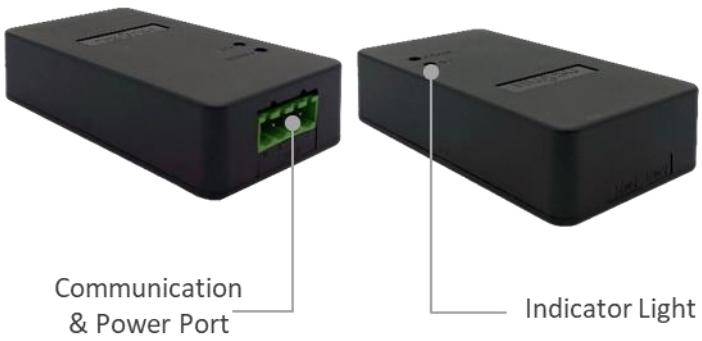


Introduction

Appearance

Appearance	Size(mm)
	

Port/Indicator



Name	Description
Indicator Light	Two indicator lights. The green light is on: The module is powered on. The red light flashes: The communication is normal.
Communication & Power Port	COM3 port of the CTB-485WL module. Pins from left to right are B, A, + and -. B is RS485 -, A is RS485 +, baud rate is 9600BPS, +/- is 12VDC power supply positive and negative input, the maximum power consumption is 0.3W.

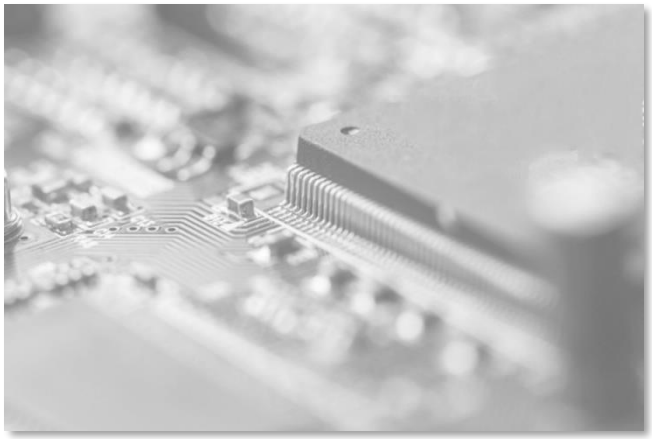
Configuration& Core Tech.

Standard

Appearance	Model	Configuration
	CTB-485WL	**Standard** **Wireless converter** 1 CTB-485WL module max manages 150 cells 1 to 4 strings managed by CM module: 1 CTB-485WL module/1 string; 2 CTB-485WL module/1 string if cells amount of 1 string >150. 5 to 6 strings managed by CM module: Total 3 CTB-485WL modules **Installed close to total positive of string**
	5010064	**Standard** **Four-core telephone line** 8 meters/ 1 string 2464 26AWG TS/4C For power supply

ZigBee Wireless Communication

- Exclusive wireless communication technology: Good timeliness and high stability.
- Convert wireless communication signal of wireless cell monitoring module to RS485 signal.
- Each wireless converter up to manage 150 wireless monitoring modules.
- Intelligent communication port and frequency choice, with strong anti-interference.



Tech. Specification

Specification

Environment

Operating Temperature: -20~+60℃ (0~2000m ASL)

Relative Humidity: 5~95%

Atmospheric Pressure: 80~110kPa

Performance

1 CTB-485WL/1 string or 1 series battery

Up to manage 150 wireless cell monitoring modules

Power Requirements

Powered by control module

10.8~13.8VDC, current ≤20mA, consumption <0.3W

Signal Conversion

Convert wireless communication signal of wireless cell monitoring module to RS485 signal

Protection

Two-level protection, reverse connection protection, photoelectric isolation, and power-on self-test (POST)

Insulation

2000VAC

Protection Grade

IP30

Overvoltage Category

II

Anti-interference & High-voltage Shock Resistance

High-level industrial-grade hardware design, suitable for various complex electromagnetic environments

Port & Protocols

RS485

ZigBee, MODBUS/RTU protocols

Flame Retardant Rating

Shell and wire harness flame retardant rating meet UL94-V0 standard

Installation

4-core ports connect to COMB port of control module.

Weight

55g

Reliability

Automatic restart trigger: Built-in WDT

MTBF: 100,000 hours

Certification

EMC:

EN 55032:2015+A11:2020 EN 55035:2017+A11:2020

EN 61000-3-3:2013+A1:2019 EN IEC 61000-3-2:2019

RED: EN 301489-1 V2.2.3 EN 301489-17 V3.2.4

Safety: EN61010-1:2010

CE and TTL certification

Application

Fields need to convert wireless communication signal to RS485 signal project

FCC Statement

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.