



CS463



CS463 "Plug & Play" Intelligent Reader



CS463 is the next generation of intelligent fixed readers from CSL. Offering an event engine with multiple layer nested logic for full embedded business automation. The CS463 offers an edge server to allow easy HTTP access for configuration, status monitoring, and direct RFID inventory. Offering Cloud server connectivity for fully synchronized ubiquitous operation anywhere, and allowing remote installation and configuration (demonstration purpose only, user can use sample source codes to port to their own Cloud). CS463 has a rich API compatibility portfolio, including the CSL HTTP/XML protocol with full event engine management, CSL Unified Protocol, LLRP Protocol, and MACH1 protocol. The CS463 reader connects to sensors and peripherals via its optically isolated GPIO, USB and serial connections. The event engine* inside CS463 integrates all these sensors and RFID inventory operation seamlessly to attain sensor fusion so that business processes can be further programmed inside the CS463 to make decisions and then in turn effect external peripherals, such as activating stack lights, gate barriers, etc. CS463 comes with Ethernet, Wi-Fi, and Bluetooth connectivity making it the easiest connectible reader in the market. CS463 has a fully open Linux OS for ease of application development.

Product Features

Built in Event Engine* for Intelligent Automation and IoT integration.

4 RP Female SMA Antenna Ports.

Long read range of 19 meters - tag, reader antenna and environment dependant.

High read rate 800 tags/second (using Reader Mode=3: Maximum Throughput Mode.)

Dense Reader Mode (DRM) available.

Ethernet connectivity with PoE+ (IEEE802.3at). Note: Will only work with PoE "at".

WiFi 802.11 b/g/n, Bluetooth 4.0

4 APIs supported: CSL HTTP/XML, CSL Unified, LLRP and MACH1.

TLS security with digital certificate using AES256 encryption.

2 Year Standard Warranty.

***details of event engine in CSL website.**

Applications

Vehicle mounting	Waste disposal management	Auto toll gates
Student monitoring	Personnel tracking	Animal tracking
Logistics	Cold chain management	Vehicle monitoring
Quality control	Asset management	Remote monitoring

Dimensions and Weight

Length: 272 mm (10.71 in); Width: 152 mm (5.98 in); Thickness: 24 mm (0.94 in); Weight: 0.72 kg

Edge Software

Edge server with intelligent event engine, and accepting 4 APIs : CSL HTTP/XML, CSL Unified, LLRP and MACH1

Operating System

Linux

Processor

Dual Core Arm Cortex®-A9, 1GB DDR3 RAM, 16GB Flash

Read Range of RFID

Read distance up to 19 meters which is tag, reader antenna and environment dependent

Protocol

ISO18000-6C, EPC UHF Class 1 Gen 2, Dense Reader Mode available (Class 3 Gen 2 compliant)

Frequency Range

One of the following: 865-868 MHz, 865-867 MHz, 902-928 MHz, 922-928 MHz, 920-925 MHz, 915-922 MHz

External Control

4xGPO and 4xGPI, Optically Isolated, additional isolated 5V output

Environment

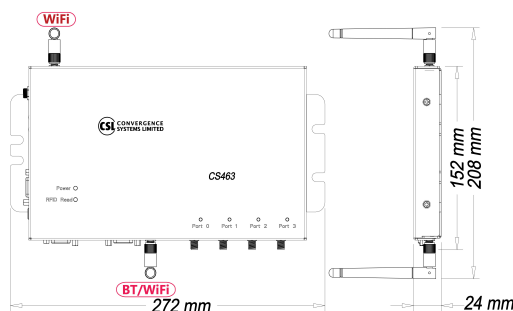
Operating Temp: -20°C to 50°C (-4°F to 122°F)
Storage Temp: -40°C to 85°C (-40°F to 185°F)
Humidity: 98% Non-condensing

Connectivity

Ethernet, Serial (RS232), USB Host, USB Client, WiFi 802.11 b/g/n, Bluetooth 4.0

Power Supply

DC supply (12V,5A), or PoE+(IEEE802.3at) (will only work with PoE "at")



Order Code

CS463-N

- N=1: 865-868 MHz (Europe) & 865-867 MHz (India)
- N=2: 902-928 MHz, USA & Canada & Mexico only (hopping frequencies locked)
- N=2 AS: for 920-926 MHz, Australia only (hopping frequencies locked)
- N=2 NZ: for 921.5-928 MHz, New Zealand only (hopping frequencies locked)
- N=2 OFCA: for 920-925 MHz, Hong Kong only (hopping frequencies locked)
- N=2 RW: for 902-928 MHz, Rest of the World that are subset of this band: e.g. Philippine, Brazil, Peru, Uruguay, Singapore, Thailand, etc.
- N=4: 922-928 MHz, Taiwan
- N=7: 920-925 MHz, China, Malaysia, etc.
- N=8: 916.7-920.9 MHz, Japan
- N=9: 915-921 MHz, Europe Upper Band

Contact us at info@convergence.com.hk or visit our website at www.convergence.com.hk