



CONVERGENCE SYSTEMS LIMITED

PLUG & PLAY INTELLIGENT READER

CS463 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 operation anywhere, and allowing remote installation and configuration. The CS463 has a rich API including the CSL HTTP/XML protocol with full event engine management, CSL Unified Protocol, LLRP Protocol and MACH1 Protocol.



GPIO Optically Isolated

PRODUCT FEATURES:

Built in Event Engine for Intelligent Automation & IoT integration.

4 RP Female SMA Antenna Ports.

Long read range of 22 meters - tag reader & environment dependent

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

Dense Reader Mode DRM available.

Ethernet connectivity with PoE+ (IEEE.802.3at). Note: will only work with PoE "at".

WiFi 802.11 b/g/n with WPA2-PSK (AES), Bluetooth 4.0

Event Engine Highlights:

- Create custom logic for each event
- Run simultaneous events
- Interface with GPIO, USB and Serial
- Reference stored tag lists
- Trigger action if tag read matches list
- Activate light stack, gate, alarm etc.
- Run events while offline

Custom Embedded RFID:

- Load custom code using your programming language of choice.
- Turn the CS463 into an edge server.

5 APIs Supported:

- CSL HTTP/XML
- CSL Unified
- CS108 Bluetooth
- LLRP
- MACH1

TLS security with digital certificate using AES256 encryption.

*Example code for Custom Embedded RFID is preloaded.

Cloud-friendly

Event engine automation

Open Linux Embed Custom Code

Connectivity



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Order Code for Frequency Regulations: CS463-N

N=1 865-868 MHz (Europe) & 865-867 MHz (India)

N=2 902-928 MHz US, Canada & Mexico

N=2 **AS** for 920-926 MHz, Australia only

N=2 **NZ** for 921.5-928 MHz, New Zealand only

N=2 **OFCA** for 920-925 MHz, Hong Kong only

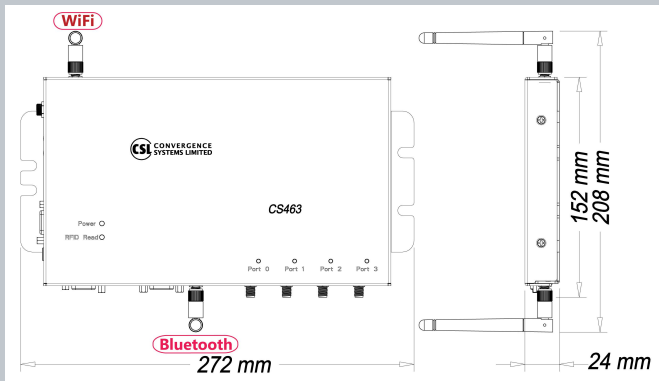
N=2 **RW** for 902-928 MHz, Rest of the world that are subset of this band: e.g. Philippine, Brazil, Peru, Uruguay, Singapore, Thailand, etc.

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



Applications

- Student Monitoring
- Quality Control
- Logistics
- Vehicle Mounted Reader
- Asset Management
- Personnel Tracking
- Remote Monitoring
- Waste Disposal Management
- Auto Gates
- Vehicle Monitoring
- Animal Tracking
- Cold Chain Management

Contact us at info@convergence.com.hk
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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 5 API's: CSL HTTP/XML, CSL Unified, LLRP, MACH1 and CS108 Bluetooth
Operating System	Linux
Processor	Dual Core Arm Cortex® -A9, 1GB DDR3 RAM,
Read Range of RFID	Read distance up to 22 meters which is tag, reader antenna and environment dependent
Protocol	ISO18000-6C, EPC UHF Class1 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 12V 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 with WPA2-PSK (AES), Bluetooth 4.0
Power Supply	DC Supply (12V,5A), or PoE+(IEEE802.3at) (will only work with PoE "at")