



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.

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.**



GPIO Optically Isolated

amazon
webservices
Microsoft
Azure
IBM OpenWhisk
Google Cloud Platform
Cloud-friendly

Event engine
automation

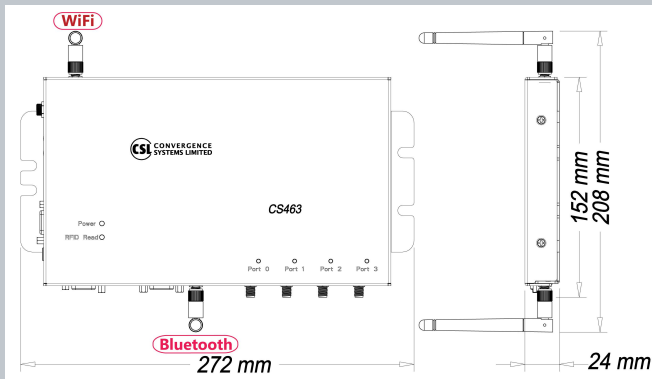
Open Linux
Embed Custom
Code

WiFi
Bluetooth
PoE+
Connectivity



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Contact us at info@convergence.com.hk
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CS463 INTELLIGENT READER

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

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")