

CONVERGENCE
SYSTEMS LIMITED

PRE-RELEASED

CS468XJ

CS468XJ 16-Port RFID Intelligent Reader



Product Features

- Built in Event Engine* for Intelligent Automation and IoT integration.
- 16 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".
- 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.

CS468XJ is the next generation of 16-Port intelligent fixed readers from CSL. Offering an event engine with multiple layer nested logic for full embedded business automation. The CS468XJ offers a powerful 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). CS468XJ 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 CS468XJ reader connects to sensors and peripherals via its optically isolated GPIO, USB and serial connections. The event engine* inside CS468XJ integrates all these sensors and RFID inventory operation seamlessly to attain sensor fusion so that business processes can be further programmed inside the CS468XJ to make decisions and then in turn effect external peripherals, such as activating stack lights, gate barriers, etc. CS468XJ has a fully open Linux OS for ease of application development.

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: 157 mm (6.18 in); Thickness: 44 mm (1.73 in); Weight: 1.25 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 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
Usage	Indoor use only. NEMA enclosure box is required for protection in outdoor environment.
Connectivity	Ethernet, Serial (RS232), USB Host, USB Client
Power Supply	DC supply (12V,5A), or PoE+(IEEE802.3at) (will only work with PoE "at")

Order Code

CS468XJ-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

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