CONVERGENCE SYSTEMS LIMITED

CS101 Handheld RFID Reader

CS101 is **the longest read range, highest read rate and highest read yield UHF RFID handheld reader** in the world. It enables lightning fast inventory of cases on pallet, warehouse shelves, moving vehicles, and other tagged items in business processes where fixed reader class performance is required in a portable device. CS101 is now deployed in many mission critical government, industrial and commercial sites in the world. With the same API as CS203, CS468 and CS469 - CSL Unified API, the application development time and cost are reduced, resulting in a faster time to market.

Applications

- Cold chain management
- Temperature data logging
- Food inspections
- Cold storage rooms
- Product authentication
- Quality control
- Evidence Tracking
- Cold chain transportation
- Temperature controlled pharmaceuticals
- Living organic materials
- Floral management
- Industrial composites and Chemicals tracking
- Data centers

Product Features

Excellent read range: 8 meters open space with DogBone tags. (CS101-H-2 Version)

High read rate: 400 tags /second.

Country specific versions in terms of frequency bands.

Choice of **vertically linear polarized, horizontally linear polarized or circular polarized**.

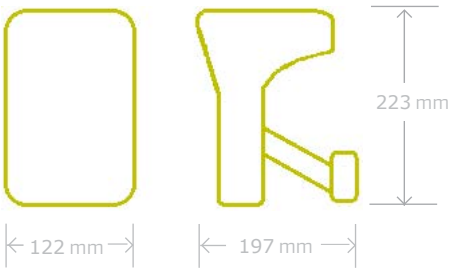
Ruggedized design: Drop Test 1.5 meters on 6 surfaces, IP65.

Full Qwerty keypad and touch screen.

1D/2D Barcode Scanner.

Wi-Fi enabled.

CSL Unified API - Same API as that of CS203, CS468 and CS469 readers.



Dimensions and Weight	Length: 197 mm (7.76 in); Width: 122 mm (4.8 in) Height: 223 mm (8.78 in); Weight: 1 kg
Read Range	8 meters in outdoor / open area with DogBone tags from Smartrac (CS101-H-2 version)
Read Rate	400 tags /second
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
Tag Information	All banks, any sizes (e.g. 240 bits bank1, 512 bits bank3), Per 'Tag Read' RSSI value
Barcode Scanner	1D and 2D: all standards available
Antenna Polarization	Vertically linear / Horizontally linear / Circular polarized
Environment	Operating Temp: -20°C to 50°C (-4°F to 122°F) Storage Temp: -40°C to 75°C (-40°F to 167°F) Humidity: 5% to 95% Non-condensing
Ruggedized Design	Drop test 1.5 meters on 6 sides; IP65
User Interface	Input : QWERTY keyboard, Touch Screen, Trigger Button Output : 3.5" Transmissive LCD, 320 x 240 pixels, LED x 2, Buzzer
Connectivity	Wi-Fi (802.11 b/g), USB, GPRS (with CS501 module), RTLS (with CS506 module)
External Memory	SD Card, Standard SD and SDHC
Processor & Memory	Samsung, 400 MHz, 128 MByte Flash, 64 MByte RAM
Battery Life	1.5 hours continuous read, 20 hours standby, easily field replaceable battery
Source Code Samples	Read / write tag. Tag inventory / ranging / search / authentication / association / commissioning. Barcode scanning, database manipulation, wireless network transfer, server side driver, etc.
Order Code	CS101-**V/H/C**-**N** N=1: 865-868 MHz (Europe) & 865-867 MHz (India), N=2: 902-928 MHz (USA), N=4: 922-928 MHz (Taiwan), N=7: 920-925 MHz (China, Australia, Malaysia, Hong Kong etc.), N=8: 915-922 MHz (Japan) (V for vertically linear polarized, H for horizontally linear polarized, C for circular polarized)

Contact us at **sales@csl-rfid.com** or visit our website at **www.CSL-RFID.com**