



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

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

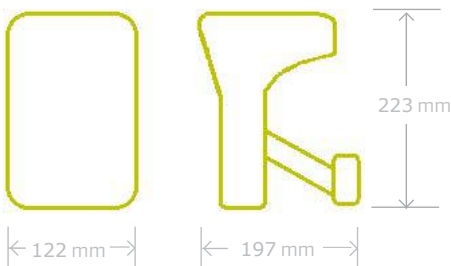
Source Code Samples

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=4SRRC: 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@cs1-rfid.com or visit our website at www.CSL-RFID.com