



# CS208-3G Intelligent Integrated RFID Reader with GPS



CS208-3G is a member of the CS208 family with **3G Mobile Connectivity and GPS**. **CS208 is the first truly INTELLIGENT INTEGRATED Reader in the world with embedded edge server** and a wide selection of connectivities, including 3G/GSM/GPRS, SMS, Ethernet, USB and Serial. With built-in GPS, the location of the reader can be identified when used outdoor. The reader is an **All Weather and MIL-STD-810 Ruggedized** RFID reader with long read range and high read rate. The CS208-3G reader is extremely versatile and can be **Plug & Play deployed** in all environments, mobile or stationary, remote or local, outdoor or indoor. The integrated reader can be used in highway toll station, bus stops, container port, slaughter house, warehouse dock door, forklift car, parking lot gate, onboard waste disposal vehicle, livestock farm, slaughter house, container port, etc. CS208-3G is uniquely offered with either left hand or right hand circular polarization, thus allowing it to be deployed in the most extreme dense reader environment – face to face close range deployment.

## Product Features

3G mobile connectivity

Global Positioning System (GPS)

Intelligent Integrated Reader with embedded edge server.

Multiple choices of edge servers with intelligent event engine, and with APIs ranging from high level HTTP to C# to low level C, are available.

Ruggedized (MIL-STD-810) integrated reader with long read range.

Dense Reader Mode (DRM) available.

Unique offering: choice of Left Hand Circular Polarization or Right Hand Circular Polarization for dock door implementation.

Best of breed antenna performance: excellent axial ratio to give best read zone control.

## 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

<b>Dimensions and weight</b>	Length: 300 mm (11.82 in); Width: 300 mm (11.82 in); Thickness: 100 mm (3.94 in); Weight: 3.5 kg
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<b>Edge Software</b>	Multiple choices of edge servers with intelligent event engine, and with APIs ranging from high level HTTP to C# to low level C.
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<b>Operating System</b>	Win CE
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<b>Read Range of RFID</b>	13 meters with DogBone tags from Smartrac (FCC version)
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<b>Protocol</b>	ISO18000-6C, EPC UHF Class 1 Gen 2, Dense Reader Mode available (Class 3 Gen 2 compliant)
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<b>Frequency Range</b>	One of the following: 865-868 MHz, 865-867 MHz, 902-928 MHz, 922-928 MHz, 920-925 MHz, 915-922 MHz
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<b>Polarization</b>	Circular Polarization Antenna, choice of LHCP or RHCP
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<b>Signaling</b>	LEDs and industrial grade buzzer for read acknowledgement and alert
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<b>External Control</b>	4 x GPO and 4 x GPI
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<b>Environment</b>	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
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<b>Dust &amp; Water</b>	IP 68, works in outdoor environment
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<b>Shock</b>	MIL-STD-810F Method 516.5 Procedure V, 75g, 6ms, 2 shocks per axis
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<b>Vibration</b>	MIL-STD-810F Method 514.5 Category 24
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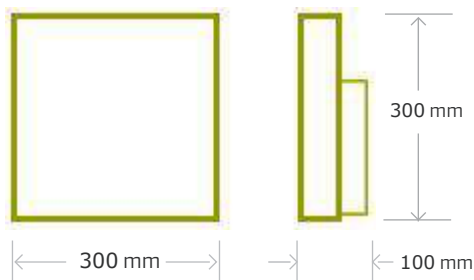
<b>Mechanical Impact Resistance</b>	Free falling ball impacting test: 500 g weight of ball in 1 meter height
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<b>Connectivity</b>	3G, GSM/GPRS, SMS, Ethernet, USB and Serial (RS232). GPS.
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<b>Power Supply</b>	DC supply (12 V, 5 A), or use POE+ (IEEE802.3at)
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<b>Order Code</b>	CS208-3G- <b>N</b> XHCP
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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)  
**X=L:** LHCP      **X=R:** RHCP



Contact us at [sales@csl-rfid.com](mailto:sales@csl-rfid.com) or visit our website at [www.CSL-RFID.com](http://www.CSL-RFID.com)