

MCG 3210i

Intelligent Field Interface Card Rack

Terminal operators, process engineers, automation integrators, and EPCs building or expanding L&J Tankway networks need a hub that won't let one bad cable, lightning hit, or wiring error take down the whole field. The MCG 3210i Intelligent Field Interface Card Rack regulates power, signal, and voltage between host systems and the field while electrically isolating each branch and adding surge suppression at the rack — a fault in one tank stays in that tank. Each Field Interface Card supports up to 128 gauges, transmitters, or RTUs over Tankway, and the modular card-rack architecture grows linearly without re-engineering the host. Unlike point-to-point wiring where one event can cascade into a control-room outage, the 3210i contains faults, simplifies SCADA expansion, and protects new and legacy devices alike.

Key Features

Reliable Data Transmission

Isolating each field branch prevents cascading failures, ensuring continuous system operation.

Surge Protection

Safeguards host systems against transient voltages and wiring errors, reducing downtime and equipment damage.

Scalable Design

Each FIC board powers and communicates with up to 128 devices, minimizing hardware footprint.

Intelligent Options

Supports RS-232 communication and can be upgraded with Intelligent Field Interface Cards (IFIC) to deliver real-time data directly to the MCG 3900 Gauging System.

Data Security

Provides robust conversion and protection of field signals for uninterrupted, secure communication



Typical Applications



TANK FARMS & TERMINALS

Multiple devices across large facilities demand reliable communication. The 3210i supports high device counts while ensuring branch isolation, preventing costly downtime.



REFINERIES & CHEMICALS

Hazardous areas need surge protection and reliable communication. Built-in protection extends equipment life and ensures safe, stable operation.



INVENTORY MANAGEMENT

Operators need seamless SCADA integration. The 3210i provides a four-wire highway and optional IFIC upgrade for intelligent data sharing with L&J host systems.



MODERNIZATION PROJECTS

Brownfield sites require retrofit-friendly solutions. The rack's modular card design and backward compatibility reduce project costs and complexity.

Benefits



Reduced Downtime

Isolated branches prevent a single fault from disabling the entire system.



Protects Investments

Surge suppression and wiring protection safeguard host systems and prolong service life.



Simplified Expansion

Add devices without redesigning communication networks — each board supports 128 units.



Seamless Upgrades

IFIC option enables real-time gauging system data without replacing existing racks.



Greater Data Security

Reliable conversions and isolated communication maintain system integrity.



Technical Specifications & Key Features

Interface:	L&J Tankway protocol, 4-wire data highway
Capacity:	Supports up to 128 field devices per FIC board
Isolation:	Independent branch isolation for fault protection
Protection:	Surge suppression against transient voltages and wiring errors
Communication Options:	RS-232 port for host system integration
Upgrade Path:	Compatible with Intelligent Field Interface Card (IFIC) for enhanced data communication with MCG 3900 Gauging System
Applications:	Gauges, transmitters, RTUs, and other L&J field devices

Dimensions

Typical System Layout



Model Number Selection

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Summary

With more than 100 years of engineering heritage, L&J Technologies designs communication solutions that are as reliable as they are innovative. The MCG 3210i Intelligent Field Interface Card Rack extends this legacy — offering a robust, expandable, and secure platform for managing communication between field devices and host systems. By choosing L&J, operators gain not only trusted hardware but also long-term support, global compliance, and peace of mind in mission-critical operations.

Info@cognesense.com
tel: (708) 236-6000

5911 Butterfield Road Hillside, Illinois 60162 USA

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www.cognesense.com