

COMMUNICATOR®

Industrial Wireless Radio Remote Control System

Features & Benefits

P/N (1746ccclWCM2410)

The Intelligent Solution for Today's Smart SLC Systems

The Communicator is the high-performance SLC platform that's easy to configure and expand. It has all the features you need to make your wireless remote applications more efficient, flexible and reliable.

- No FCC site license required (wide band modules)
- Supports wide band communications
- Data rates up to 230.4 Kbps with 2.4 GHz wide band
- Superior range to 802.11 wireless LAN devices
- Easy to configure from Allen Bradley's I/O configuration window along with front panel
- DIP switches
- Four easy-to-read front panel diagnostic LEDs:
 - Link Status, Transmit Data, Receive Data, Module Fault

Designed as part of the Rockwell Automation Encompass Program for the Allen-Bradley SLC-500 controller the Communicator® installs directly into the SLC-500 chassis. Unlike a modem, it communicates across the backplane as opposed to using an external, serial interface. Therefore, the Communicator® lets you eliminate those hard-wired cables and extra layers of connectivity that can impede communications. It creates a "virtual wire" that delivers superior performance and maximum flexibility in all SLC applications. This eliminates the high installation and ongoing maintenance costs associated with hard-wired systems.

The Shortest Distance Between Two Points is Thin Air

Compatible with all SLC-500 Modular CPU's (5/01 through 5/05), the Communicator® uses radio propagation to wirelessly interconnect one or more SLC-500 chassis. Different processors in each rack can be used (5/01 through 5/05). This can be achieved either by simple point-to-point connectivity or by means of a more complex multi-node network topology. With Communicator® on the job, information is processed quickly. The information is communicated directly over the SLC-500 backplane, and remote data throughput rates are some of the fastest in the industry.

Easy to program with standard "ladder logic", the Communicator® can transport data via scanned I/O. Its base/remote topology can support up to 16 nodes. It is also designed to meet the performance needs of the most demanding applications.

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COMMUNICATOR[®]

Technical Specifications

LED Indicators

Link Status	Module has established a valid communication link
Transmit Data (TD)	Module sending data over the air waves
Receive Data (RD)	Module receiving data over the air waves
Module Fault	Indicates internal module error

Access Panel

Module Access Port	Reserved for future product enhancement
Upper DIP Switch (1)	Module addressing
Lower DIP Switch (1)	Module configuration
Antenna Port	Connection for the antenna system

(1) Identifies module's function - spare module is universal within the same media type

Media Type

Spread Spectrum (5)

Data Exchange	Transceiver
Modulation	NA
RF Power	10 mW 100 mW (2)
Typical Range	500-1000 ft (Indoor) 3500 ft - 6+ miles (Outdoor)
Frequency Band in MHz	2400-2483
RF Bandwidth	750 KHZ
Number of Channels	75
Receiver Sensitivity	-95 dBm
I/O Data Rate	230.4 Kbps (4)
RF Channel Data Rate	460 Kbps
Adjacent Channel Rejection	>55dB
Operating Temperature Range	-30 C to +70 C

(2) Power is specified with standard 2 dB antenna

(3) Range figures stated are approximate and are environmental and antenna configurations dependant

(4) Full Duplex

(5) Approved to US FCC Part 15.247 - no site license required

International approvals available - please consult Control Chief for individual country acceptance data.



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WIRELESS SOLUTIONS

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