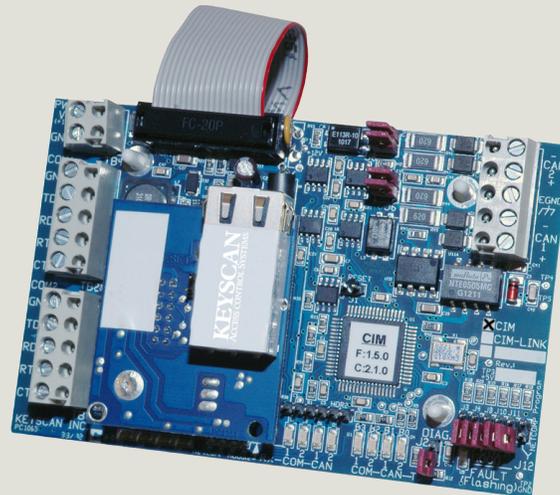# Keyscan CIM

Communications Interlink Module

Communication that meets the sophisticated demands of today's access control systems

The Keyscan CIM is a communication control module designed to use a CAN Bus communication network. It provides optimized server to access control unit (ACU) communication as well as gives users an ACU to ACU network providing inter-panel communication for global communication functions including anti-passback, global input/output and global time zones.

The CIM includes an impressive host of new features including ground loop protection, enhanced diagnostics, improved speed and unprecedented reliability.

Standardized Cabling
Establishes communication links with CAN Bus communication protocol using standard CAT5 cabling.

Ground Loop Tolerance
Maximizes electrical isolation to earth ground providing tolerance against ground loops.

Fault Tolerance
If one CIM goes down, it won't take the loop down with it. CAN Bus protocol offers non-interrupted communication of remaining devices on the network.

Communication Speeds
Provides optimized communication speeds, up to 115K BPS.

Enhanced Diagnostics
Provides many diagnostics for quick and easy troubleshooting.

Auto Bit Rate Configuration
Designed to automatically match bit rate speed with control unit configuration.

Network Adaptation
Supports Keyscan's plug-on TCP/IP network adapter NETCOM2P/6P. (pictured above)
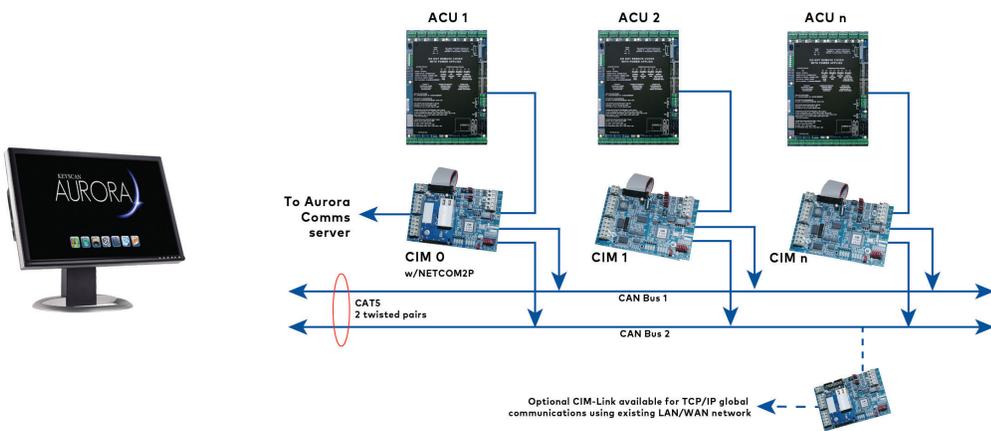
Ribbon Cable
Uses a simplified ribbon cable connection to control unit for fast installation.

Global Communication
Access Control Units with direct connectivity with the CAN Bus network now provide ACU to ACU communication without server dependence. This permits a host of new features and capabilities.

Specifications

Operating Voltage	12 VDC
Current Draw (CIM only)	150 mA
CIM with NETCOM2P/6P	290 mA
Dimensions	4 5/8" x 3" (11.7 cm x 7.6 cm)
Operating Environment	32 F - 140 F (0 C - 60 C)
Topology	Linear
Network support	Standard, Encrypted, Reverse IP
CAN Bus	CAN Bus 1 - Server to ACU communication CAN Bus 2 - ACU to ACU global communication
Firmware	Minimum EPROM versions 7.40/8.20
Software	Keyscan Aurora (all) System 7.0.16 or higher Vantage 8.1.15 or higher

PC / ACU Bit Rate
9600 or 19,200
57,500
115,200

CAN Bus 1 & 2 CAT 5 Distance*
3280 ft (1000m)
984.25 ft (300m)
262.46 ft (80m)

RS-232 Serial Distance
49.2 ft (15m)
26.2 ft (8m)
9.84 ft (3 m)

* Refers to the maximum recommended cabling distance between the 1st and last CIMs on any communication loop.

Network communication via NETCOM2P/6P

NETCOM2P or NETCOM 6P (encrypted) plug directly into the CIM module to establish network communication. They must first be programmed. The CIM module with the network connection is referred to as CIM 0. Refer to the NETCOM2P or NETCOM 6P/CIM programming guides for full instructions.