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

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

![Diagram](image)

**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.

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