

# Case Controller (CC200) Network

## Recommended Number of CC200s on Networks

The following guidelines outline the recommended maximum numbers of CC200s on various network configurations. These recommendations are based on lab testing and may vary depending on installation conditions, cable quality, electrical noise, and other environmental factors.

Protocol	E2/E3 Port Type	Number of CC200s	Baud Rate/Max Cable Length	Notes
Modbus	Serial Port RS485	<b>32* per COM port</b> (Sum of COM A + COM B)	9600 at 4000 ft (1220m) <sup>1</sup> 19200 at 4000 ft (1220m) <sup>1</sup> (Recommended)	Max of 90* CC200s across all E2/E3 serial ports: <b>Ideal for retrofits</b> , but <i>not preferred for new installations</i> .
BACnet IP Only	ETH1 Port	<b>Max of 90*</b> CC200s in daisy chain configuration	CAT5E not exceeding 328 ft (100m) between devices. (Ethernet switches can extend the network if specifications are met)	Max of 90* CC200s per E3 ONLY. <b>Recommended method for E3 Installations.</b> (Uses onboard Ethernet switch capability built into ETH1 and ETH2 ports of each CC200)
MS/TP-IP Router	MS/TP-Router and daisy chain	<b>32* per COM port</b> RS485 BACnet MS/TP to first device, then CAT5 to all others. (COM A Only for BACnet MS/TP)	19200 at 4000 ft (1220m) (MS/TP-Router) <sup>1</sup> 57600 at 1200 ft (365m) (MS/TP-Router) Recommended <sup>1</sup>	CAT5E not exceeding 328 ft (100m) (Unmanaged Ethernet switches can extend the network) Max of 64* CC200s across all E2/E3 serial ports. <b>Recommended method for E2 installations.</b>

*Note: For cable requirements and additional wiring details, see the Case Controller 200 (CC200) User Guide (P/N 026-1740) or [click here](#).*

### \* Additional Notes:

- These recommendations are based on ideal lab conditions. Real-world performance may vary depending on factors such as:
  - Installation site conditions.
  - Cable quality and type.
  - Electrical noise and electromagnetic interference (EMI) from power sources.
  - Environmental factors.
- Ensure compliance with site-specific requirements and manufacturer guidelines to maximize network performance and reliability.

*For more details or questions, please reference the Case Controller 200 (CC200) User Guide **P/N 026-1740**, and for the Case Controller 200 (CC200) Hardware and Wiring Guide (P/N 026-4714), [click here](#).*

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