

Axiom™

NC-100 NETWORK CONTROLLER



Available in Standard
and TCP/IP models

The NC-100 Network Controller is at the core of the family of access control products from RBH. The extremely fast 32-bit system architecture represents a significant leap forward in an industry where 8-bit technology is standard. AxiomV™ is the latest in a generation of products designed for the seamless integration of access control, video and alarm technology.

Its unparalleled communications capabilities make local and remote dial-up sites almost transparent to the operator.

The NC-100 is built to provide maximum flexibility without compromising safety, security, usability, or affordability.

- **Modular design allows maximum versatility for tailoring secure and dependable access control and security management solutions for any facility regardless of size.**
- **The NC-100 Controller is designed to operate on or off-line with full functionality through its embedded distributed processing power.**
- **Built-in high speed communications capabilities.**
- **All cardholder records, access levels, schedules, and configuration data are stored in the controller.**
- **Hardware design incorporates plug-and-play compatibility with future software enhancements.**
- **Expandable memory.**
- **Supports TCP/IP over local and wide area networks.**

Power Requirements :	9 - 14VDC (available from RC-2 or IOC-16)
Current Consumption :	220mA (256k RAM version)
Processor :	32-Bit Motorola microcontroller
Memory :	256K expandable to 16 Mbytes
Max No. of Controllers per Network :	15
Max No. of Reader Controllers (RC-2) per NC-100 :	4 (8 card readers)
Max No. of I/O Controllers (IOC-16) per NC-100 :	16 (320 inputs or outputs)
Cardholder Database :	7,000 per controller expandable to 500,000; 5 - 12 digit card numbers
Event Log :	5,000 per controller expandable to 100,000

Communication Between Network

Controllers :	Designation :	C-NET
	Network Type :	ARCNET LAN
	Speed :	156K up to 2.5Mb/s
	Circuit Type :	Ring (short or open circuit protection)
	Cable Type :	Shielded, twisted pair, 20- 22AWG
	Cable Distance :	2,500ft (750m) between controllers 10,000ft (3,050m) total

Communication Between NC-100

& RC-2 & IOC-16 :	Designation :	D-NET
	Network Type :	RS485 high speed network
	Speed :	38,400 bits/second
	Ports :	2 x RS485 ports (fully supervised)
	Circuit Type :	Ring (short or open circuit protection)
	Cable Requirement :	Shielded, twisted pair, 20 - 22AWG
	Cable Distance :	3,000ft (900m) between devices 15,000ft (4,550m) total

Local PC & Remote Communications :

Type :	RS232, TCP/IP Ethernet or RS485 4-Wire
Speed :	Programmable, 1200 to 38,400 baud

Real Time Clock :	Built-in
Watchdog Circuit :	Built-in
Dimensions :	9.75"H x 6.875"W x 3.25"D (25 x 18 x 10cm)
Operating Temperature :	0 to 70°C (35 -150°F)
Operating Humidity :	20 to 80% RH (Non-Condensing)