

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in financial matters. The text outlines various methods for organizing and storing these records, including digital databases and physical filing systems.

2. The second section focuses on the role of communication in project management. It highlights the need for clear, concise, and timely communication among all team members. The text provides guidelines for effective communication, such as using appropriate channels, setting expectations, and providing regular updates. It also discusses the importance of active listening and feedback in fostering a collaborative environment.

3. The third part of the document addresses the challenges of resource allocation and management. It explores various strategies for identifying, prioritizing, and allocating resources effectively. The text discusses the importance of understanding the needs and capabilities of different team members and how to match them with the appropriate tasks. It also touches on the importance of monitoring resource usage and making adjustments as needed.

4. The final section discusses the importance of risk management in project planning and execution. It outlines the steps for identifying potential risks, assessing their impact, and developing mitigation strategies. The text emphasizes the need for proactive risk management and regular communication with stakeholders to ensure that risks are kept under control throughout the project lifecycle.

## VertX™ V1000 Network Controller

### Features

#### Mounting

Mount to any wall surface, using four screws. For UL compliance, one or more controllers can be mounted inside a locking NEMA-4 rated enclosure with:

- DC supply with battery back-up
- Enclosure tamper switch
- All connections made through conduit

#### Visual Indicators

Power LED indicates that sufficient DC voltage is being provided to the unit. RS-485 Communications LED: solid green indicates successful communications to downstream devices, red flash indicates a failed communications attempt, solid red indicates no communications.

#### Easily Interfaced

- RJ-45 connector for Ethernet TCP/IP
- Quick-disconnect screw terminal connectors:
  - Four RS-485 connections to interfaces
  - 2 supervised analog inputs for general purpose applications
  - 2 non-latching output relays for local alarm annunciation (rated 2A @ 30 VDC)
  - DC Power input
  - Tamper input\*
  - AC Power Fail input\*
  - Battery Fail input\*

\*Can be configured as a general purpose input

#### Hardware

- 32-bit RISC CPU, 100 MHz

#### Memory

- 8 MB onboard Flash memory
- 16 MB / 32 MB memory expansions available
- 32 MB SDRAM
- 256k SRAM

### Specifications

#### Dimensions

5.8" W x 4.825" H x 1.275" D  
(147.32 mm x 122.55 mm x 32.38 mm)

Weight: 12.4 oz (.35 kg)

Enclosure Material: UL94 Polycarbonate

#### Power Supply Requirements

140 mA @ 12-18 VDC

Recommended: Supervised linear power supply with battery backup, input surge protection, and AC Fail and Battery Low contact outputs.

Separate supervised DC supply with battery back-up recommended for relay activated devices.

#### Operating Environment

Indoors, or customer-supplied NEMA-4 Enclosure

#### Temperature

32° to 122° F (0° to 50° C)

#### Humidity

5% to 95% relative, non-condensing

#### Communication Ports

RS-485 – two wire.

TCP-IP – one port, 10 or 100 Mbps

#### Certifications

UL 294 and UL 1076 Recognized Component for the US  
CSA 205 for Canada  
FCC Class A Verification  
EMC for Canada, EU (CE Mark), Australia (C-Tick Mark),  
New Zealand, Japan  
EN 50130-4 Access Control Systems Immunity for the  
EU (CE Mark)

#### Cable Distance

**RS-485** – 4000 feet per network (two independent RS-485 networks) using Belden 3105 (22AWG) 2-twisted pair, shielded 100Ω cable

**TCP/IP** – 300 feet (100 m) to next device, using Category 5 cable, Alpha 9504C or 9504F

**Input Circuits** – 500 feet (150 m), 2-conductor, shielded, using ALPHA 1292C (22AWG) or Alpha 2421C (18AWG)

**Output Circuits** – 500 feet (150 m), 2-conductor, using ALPHA 1172C (22AWG) or Alpha 1897C (18AWG)

Minimum wire gauge depends on cable length and current requirements.



#### IMRON CORPORATION

15375 Barranca Pkwy Building B-106 • Irvine, California 92618  
Phone: (949) 341-0947 • Fax: (949) 341-0949 • www.imron.com