

## **SuperVZR WEB SERVER**



### **INTRODUCTION**

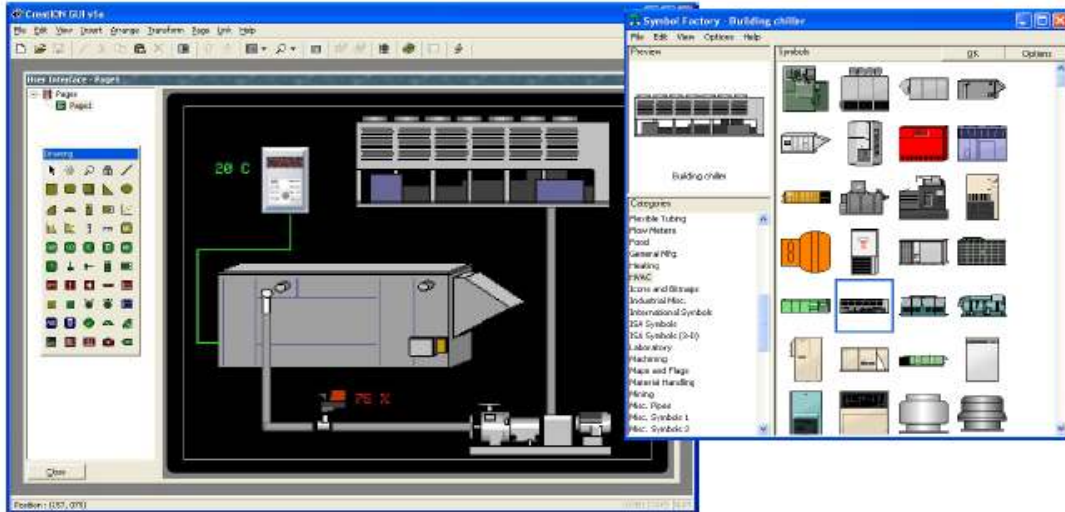
The **SuperVZR** is a versatile, high quality, easy to use, powerful and proven, complete web server based integrated Building Management System (iBMS) solution in a single compact package.

The **SuperVZR** can control, monitor, log, program, alarm and graphically display up to 254 networked, field device controllers per each network from a standard web browser. With BACnet and Modbus drivers built-in, the **SuperVZR** can easily interface with 99% of all other BMS sub systems.

### **Applications**

Its economy and ease of use makes **SuperVZR** ideal for small to medium building projects such as Schools, Hotels, Hospitals, Day Care Centres, Office and residential complexes. However it is not limited to small systems as the **SuperVZR** is infinitely expandable with its use of standard Ethernet network.

- Multiple communication port option for interfacing: - Ethernet, RS232, RS485, USB
- BACnet and Modbus protocol interface for simultaneous **real time** point transfer.
- Full User Access and Management Security control and audit trail logging.
- 100's Multiple field device connection and 1000's of point read/write, log, alarm and trending capability.
- Alarm events logging and display and or sent via email SMTP and/or SMS Text messages.
- Simple and economical CompactFlash® Card expandable database capability.
- Internal program to create powerful instruction sub-routines, eg, field device On/Off time scheduling, Demand Response and Peak Load Shedding Energy saving scenario's.
- Standard Internet Explorer Web Browser for remote monitoring and control. - (see below)



**COMMUNICATION -Configuration Application** - Multiple protocol driver options - BACnet and MODBUS and communication protocols includes TCP/IP, SMS, SMTP.

**DATA TAGS Application** - Field Device Points configuration to set type; Integer, String, Real and action; Alarm, Log etc.

**PROGRAMMING Application** - Create powerful control sub-routines for specific sets of points and devices in simple C type script language.

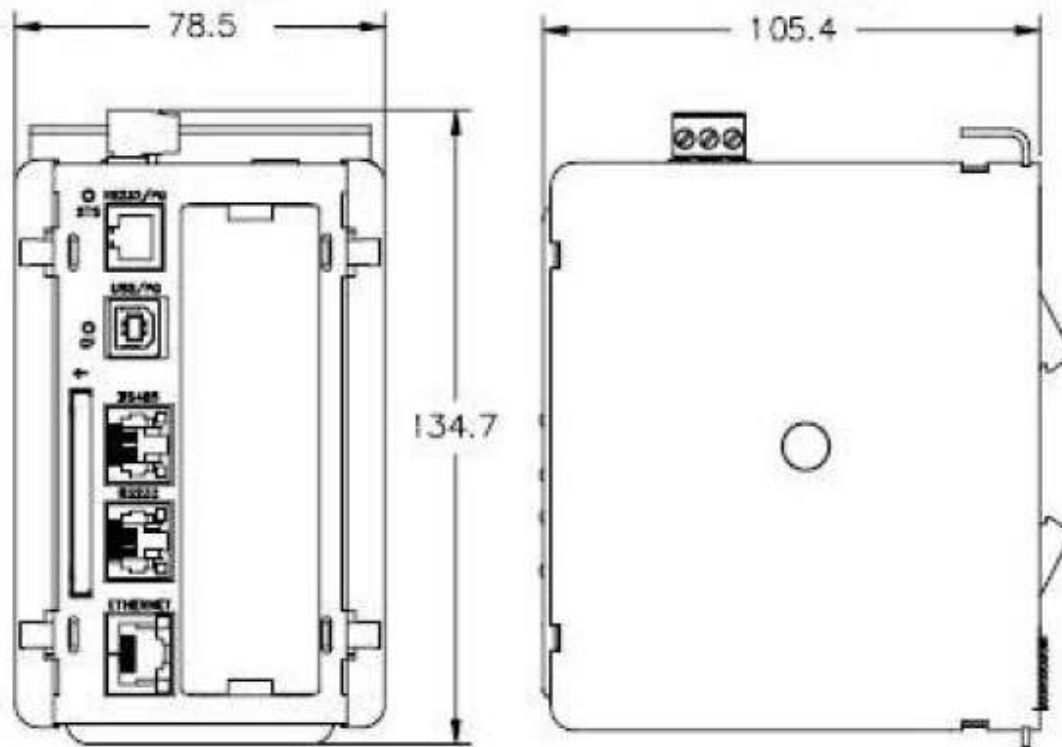
**SECURITY MANAGER Application** - Set up system user access levels and PIN passwords

**DATA LOGGER Application** - Setup logging options; batch, Trend Viewer support export in CVS file for Excel Reports etc.

**OTHER Applications** - FTP and OPC Server, Time and Sync Manager



## COMS CONNECTIONS & DIMENSION



**Ports:** RS232/PG, USB, RS232/RS485, Ethernet  
 PG = Programming or Field Device Serial Network

**Mounting:** Standard DIN rail

### SPECIFICATIONS -

- POWER:** 24 VDC  $\pm$  10% 200 mA min., without expansion card 1 Amp maximum with expansion card fitted Must use Class 2 or SELV rated power supply.
- COMMUNICATIONS:**  
**USB/PG Port:** Adheres to USB specification 1.1. Device only using Type B connection.  
**Serial Ports:** Format and Baud Rates for each port are individually software programmable up to 115,200 baud.  
**RS232/PG Port:** RS232 port via RJ12  
**COMMS Ports:** RS422/485 port via RJ45, and RS232 port via RJ12  
**DH485 TXEN:** Transmit enable; open collector, VOH = 15 VDC, VOL = 0.5 V @ 25 mA max.  
**Ethernet Port:** 10 BASE-T / 100 BASE-TX RJ45 jack is wired as a NIC (Network Interface Card).
- LEDs:** STS - Status LED indicates condition of ION SuperVZR TX/RX - Transmit/Receive LEDs show serial activity, Ethernet - Link and activity LEDs, CF - CompactFlash LED indicates card status and read/write activity
- MEMORY:** On-board User Memory: 4 Mbytes of non-volatile Flash memory. On-board SDRAM: 8 Mbytes Memory Card: CompactFlash Type II slot for Type I and Type II cards.
- REAL-TIME CLOCK:** Typical accuracy is less than one minute per month drift. Creation's SNTP facility allows synchronization with external servers. Battery: Lithium Coin Cell. Typical lifetime of 10 years at 25 °C. A "Battery Low" system variable is available so that the programmer can choose specific action(s) to occur when the battery voltage drops below its nominal voltage.
- ENVIRONMENTAL CONDITIONS:**  
 Operating Temperature Range: 0 to 50°C, Storage Temperature Range: -30 to +70°C. Operating and Storage Humidity: 80% max relative humidity, non-condensing, from 0 to 50°C.
- CERTIFICATIONS AND COMPLIANCES: SAFETY**  
 PCB UL Listed Lab. Inc. to U.S. and Canadian safety standards IEC 61010-1, EN 61010-1: Safety requirements for electrical equipment for measurement, control, and laboratory use, Pt 1.
- WEIGHT:** ~ 450g - ex CompactFlash Card. (not included)

