

## Red5-PLUS-ROOM

### Description

The Red5-PLUS-ROOM is a fully programmable native BACnet building controller. As the primary integration engine of the Red5 system, the Red5-PLUS-ROOM contains memory storage and external communication ports, as well as control logic for the expansion modules. The Red5-PLUS-ROOM can support up to 12 I/O or gateway modules and up to 24 access modules, as long as the total number of modules does not exceed 24.

The Red5-PLUS-ROOM supports multiple communication methods, including BACnet/IP, BACnet over Ethernet, BACnet MS/TP and Delta LINKnet.



### Application

The Red5 system is a complete solution that combines HVAC, access control and lighting control in a modular system, with multiple protocols and I/O points in one unit.

The Red5 system improves room control, avoids duplicate devices and offers a satisfying occupant experience at a lower energy cost.

### Features

- Fully programmable
- BACnet/IP, BACnet over Ethernet and BACnet MS/TP communication ports
- Dual Ethernet ports
- Modular, expandable I/O. Modular design provides flexibility, ease of service and reduces cost of future upgrades.
- Advanced fault detection and diagnostics
- Firmware upgrade and database load/ save over the network
- LED indicators for device status, NET and Ethernet ports
- USB expansion ports
- DIN rail mountable (EN 50022-35x7.5)

## Specifications

BACnet Device Profile BACnet Building Controller (B-BC)

Device Addressing Software addressed

**Connectors** Removable screw-type terminal connectors

Wiring Class Class 2 / SELV

**Power** 24 VDC, 2 W typical (5 W max) 24 VDC, 100 W max output fully loaded

#### Power Out

1 24 VDC switched power output Short circuit protected Overcurrent protected

2 24 VDC unswitched power outputs

#### Technology

Arm<sup>®</sup> Cortex<sup>®</sup>-A8 32-bit 600 MHz RISC CPU 256 MB DDR3L RAM 4 GB eMMC flash memory Real-time clock Supercapacitor power backup for RTC and CPU

### **Communication Ports**

2 Ethernet (10/100-Base T) BACnet/IP, BACnet over Ethernet, BACnet/SC

3 RS-485 ports supporting: BACnet MS/TP up to 76800 bps, max 16 devices per Red5-PLUS-ROOM

Delta LINKnet up to 76800 bps, max 12 devices per Red5-PLUS-ROOM\*

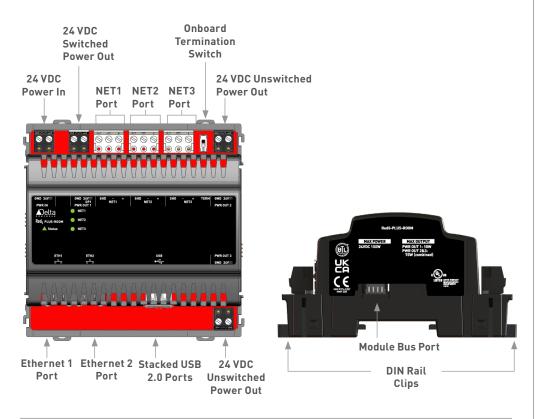
Modbus RTU up to 115200 bps, max 16 devices per Red5-PLUS-ROOM

\* Limit is 12 devices in V4.13 firmware or later. Otherwise, limit is 8.



# **Red5** Series

## Red5-PLUS-ROOM



Order the Red5-PLUS-ROOM with one or more modules or hubs:

### **Base Unit**

Red5-PLUS-R00M	Base unit: 3 network ports, 2 Ethernet ports, 3 power outputs,
	Modbus RTU

### Modules and Hubs

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Red5-MODULE-4F4xP	I/O module: 4 universal I/O, 4 FET binary outputs
Red5-MODULE-8xP	I/O module: 8 universal I/O
Red5-MODULE-1D00R	Access module, single door support
Red5-MODULE-DALI	DALI lighting module: DALI interface, 100 mA power output
Red5-MODULE-PoE	Power over Ethernet module (IEEE 802.3at)
Red5-EXPAND-04	Power injector for Red5 expansion supporting up to 4 modules
Red5-MODULE-SMI	SMI module for motorized blinds: SMI interface, 30 mA power output
03-HUB	Sensor hub (temp, hum, light, motion, Bluetooth, LED ring, microphone, speaker)
03-HUB-En868	03-HUB with EnOcean 868 MHz
03-HUB-En902	03-HUB with EnOcean 902 MHz

### **Specifications (Continued)**

**Communication Ports (Continued)** 1 CAN bus port

2 USB 2.0 ports

Ambient Rating -30°C to 55°C (-22°F to 131°F) 10% to 95% RH (non-condensing)

**Dimensions** 108 × 111 × 58 mm (4.25 × 4.37 × 2.28 in.)

**Weight** 193 g (0.425 lb)

Enclosure Protection Rating

Compliance CE FCC

Listings cULus 916 Listed

Updated September 2023

Subject to change without notice.



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# Red5 Series

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### Power Supplies

DRC-24V30W1AZ	Chrome Line Voltage DC power supply 24 V 30 W Class A EMC
DRC-24V60W1AZ	Chrome Line Voltage DC power supply 24 V 60 W Class A EMC
DRC-24V100W1AZ	Chrome Line Voltage DC power supply 24 V 100 W Class A EMC
DRS-24V30W1NZ	Sync Line Voltage DC power supply 24 V 30 W Class B EMC
DRS-24V50W1NZ	Sync Line Voltage DC power supply 24 V 50 W Class B EMC
DRS-24V100W1NZ	Sync Line Voltage DC power supply 24 V 100 W Class B EMC

