



Extending the Capabilities of the Voice Evacuation System with Red5 Devices

- ✓ Integration with any system based on the BACnet protocol
- ✓ Ability to expand the number of logic inputs/outputs of the voice evacuation control panel
- ✓ Support for Ethernet and PoE – simplified installation and power supply
- ✓ Built-in web server with access to enteliVIZ (real-time system visualization)
- ✓ Support for voice evacuation and other safety systems (e.g. status signaling, action logic)
- ✓ Compact enclosure and DIN rail mounting



We make everyday life safer

System Integration

New Possibilities with Delta Controls Red5

Modern buildings are becoming increasingly complex and require unified management of multiple technical systems. Reliability, safety, and centralized access to information are key requirements for infrastructure in today's commercial and public facilities.

The Red5-Driver-Ambient communication interface is designed to integrate the Ambient system (SMS protocol) with Delta Controls controllers. The interface is available in two functional versions:

1. Red5-Driver-Ambient-Gateway – enables data exchange with BMS, SCADA, and enteliCLOUD systems via BACnet IP or BACnet SC protocols. Intended for installation on controllers connected on the WAN side of the Ambient system.
2. Red5-Driver-Ambient-IO – extends the Ambient system's functionality by adding additional system inputs and outputs. Also intended for installation on controllers connected on the WAN side of the Ambient system.



License #1

RED5-DRIVER-AMBIENT-GATEWAY

Software interface for integrating the Ambient System with BMS/SCADA/enteliCLOUD

License #2

RED5-DRIVER-AMBIENT-IO

Software interface for expanding the number of logic inputs/outputs of the voice evacuation control panel

An added value of the solution is the ability to remotely access the system via enteliCLOUD — a cloud-based management and monitoring platform that allows users to analyze data and configure devices directly from a web browser. Within enteliCLOUD, the enteliVIZ feature provides basic graphical visualization of system components and their status, supporting ongoing monitoring and diagnostics.

The Red5 System Family

Reliability and Security



A programmable controller from the Red5 series, serving as the central communication unit. It enables integration between building automation systems and the voice evacuation control panel via the SMS protocol, acting as a communication gateway in a WAN topology.

- ✓ Supports protocols: BACnet/IP, BACnet SC, Modbus RTU, Delta LINKnet
- ✓ 2x Ethernet, 2x RS-485, CANbus, USB, NFC
- ✓ Supports up to 4 expansion modules
- ✓ DIN rail mounting, 24 VDC power supply
- ✓ Integrated with enteliCLOUD and enteliVIZ visualization
- ✓ Automatic creation of BACnet objects based on data from the voice evacuation system



An expansion module from the Red5 series designed to control both digital and analog inputs and outputs. Primarily used as an I/O extension in LAN topology, it works directly with the Red5-EDGE-ROOM controller.

- ✓ 4 universal inputs/outputs (0–10V, 4–20mA, dry contact, thermistor)
- ✓ 4 FET-type binary outputs (up to 0.5 A, 24V AC/DC)
- ✓ DIN 35 mm mounting, powered via CANbus
- ✓ Automatic detection and configuration
- ✓ Compact dimensions: 54 × 111 × 58 mm

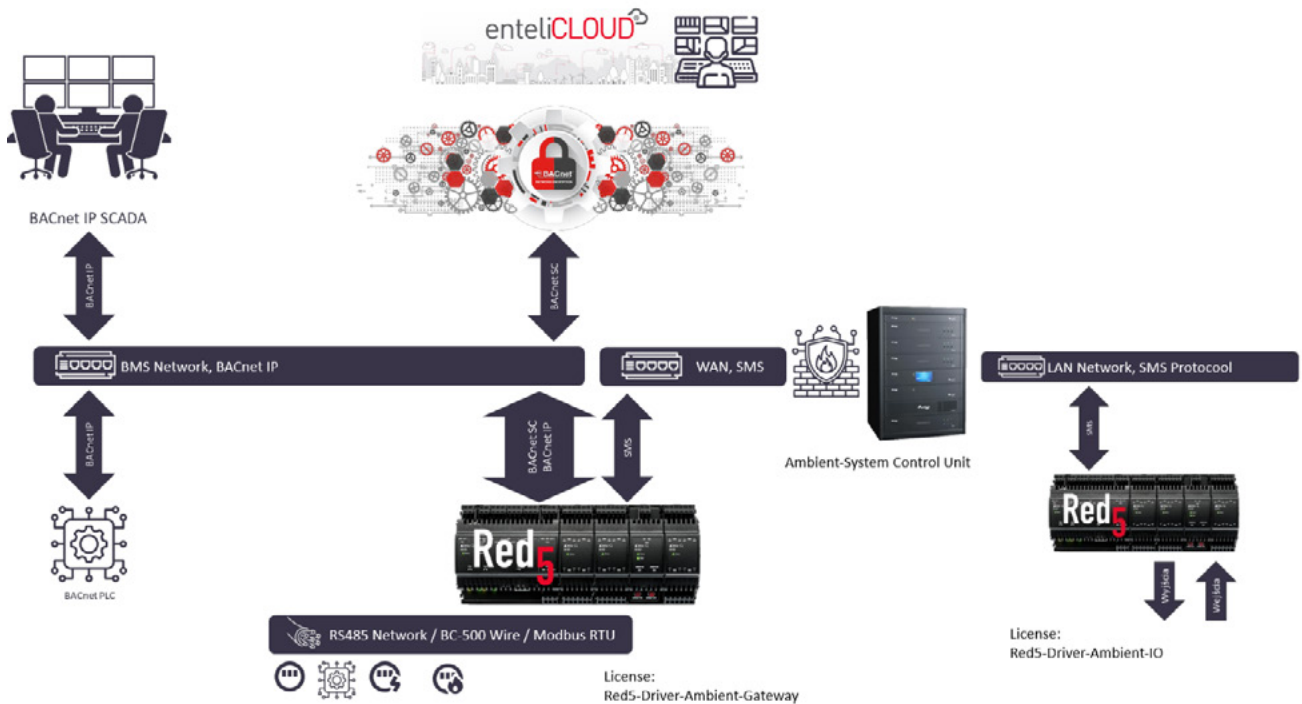


A module that provides 8 configurable inputs/outputs, which can be flexibly adapted to the installation's requirements. An ideal solution for expanding a voice evacuation system when a large number of logic signals is needed.

- ✓ It features 8 universal inputs/outputs (analog, digital, thermistor, dry contact).
- ✓ Supports supervised inputs and bit matrix mode
- ✓ Powered from the Red5 controller via CANbus
- ✓ DIN rail mounting, dimensions: 36 × 111 × 58 mm
- ✓ Simple installation and flexible system expansion

Integration with Ambient System panel

The diagram illustrates two possible scenarios for using Red5 devices in integration with the Ambient System voice evacuation control panel.



In the first scenario, the Red5-EDGE-ROOM controller functions as a gateway between the DSO panel and external building management systems such as BMS or SCADA. Communication with the DSO panel is handled via the SMS protocol, while integration with the supervisory system is achieved using open protocols like BACnet/IP or BACnet Secure Connect (SC).

The data can also be presented in the cloud through the enteliCLOUD service, which offers browser-based access, along with enteliVIZ for visualizing device status.

In the second scenario, a Red5 device with corresponding expansion modules (e.g., Red5-MODULE-4F4xP or 8xP) acts as an I/O extension for the system. It communicates with the DSO

panel over the LAN using the SMS protocol and allows physical expansion of logic signal inputs and outputs without modifying the existing control panel.

Both approaches rely on preconfigured Red5 components that integrate automatically without requiring additional setup. This architecture allows the system to scale and adapt to the size and needs of the facility while maintaining ease of deployment and high reliability.

The visualization displays, among other things:

- » basic system commands (e.g., audio test, mute),
- » current status of control units (CU), including power supply, alarms, and faults,
- » status of local components such as microphones and WMC controllers,
- » general communication information and potential faults.

Thanks to the visualization, system data is easy to interpret and accessible remotely — with no need to install additional software.

RED5-EDGE-ROOM

CPU module – up to 4 modules 8/4FxP, 2x Ethernet, 1x RS485 (MS/TP; LINKnet; Modbus RTU [max. 4], OSDP [max. 8]); 1x Red5BUS ([NET3] [max. 2 Hubs]), 2x USB, NFC

RED5-MODULE-8XP

Input/output module, 8 universal channels (AI, AO, BI or BO) for Edge-ROOM

RED5-MODULE-4F4XP

Input/output module with 4 transistor BO and 4 universal channels (AI, AO, BI or BO) for Edge-ROOM

RED5-DRIVER - AMBIENT-GATEWAY

BACnet software interface for integrating the Ambient System with BMS/SCADA/enteliCLOUD

RED5-DRIVER -AMBIENT-IO

I/O interface for integration with the Ambient System

EW25CLOUD1M

enteliCLOUD monthly subscription for 1 site, up to 25 I/O, includes eVIZ

Compliance and Safety

All Red5 series devices comply with EU directives and are certified with CE, FCC, and EAC marks.

These solutions are designed for high reliability, compatibility with BMS/SCADA systems, and easy integration in both industrial and commercial environments.

Additional Information

Detailed documentation, installation manuals, and application examples are available on the manufacturer's website or through our technical support department. The solution is actively supported and maintained, and licenses can be flexibly tailored to meet project-specific requirements.

How to Order

Red5 devices and licenses are available through our company, along with full technical support and integration documentation. Contact our sales team to select the configuration that best fits your project needs.

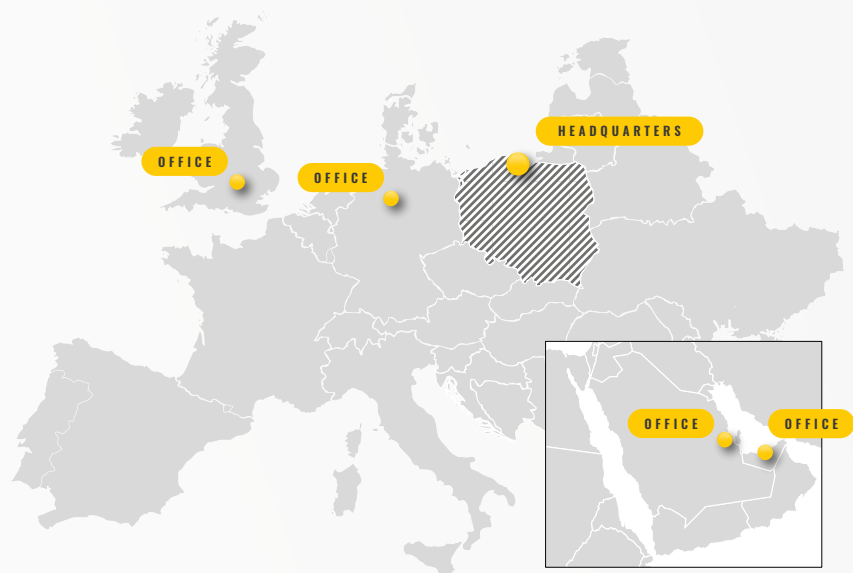
Contact

HEADQUARTERS

AMBIENT SYSTEM Sp. z o.o.
ul. Bysewska 27 | 80-298 Gdańsk
Poland
T: +48 58 345 51 95
ambient@ambientsystem.pl

SALES

sales@ambientsystem.pl





We make everyday life safer

Ambient System products are continually improved. All specifications are therefore subject to change without prior notice.

EN / 07.2025