

# COM BADGE

Part number: VER-1650

Component Specifications



Prototype.

## DESCRIPTION

This small, lightweight badge automatically transmits invisible, digitized, infrared (IR) light and radio frequency (RF) interlace containing badge identification, page requests or alert notification, and battery condition. Transmissions increase in frequency when in motion and are gradually reduced in frequency when the badge is at rest to preserve the battery life.

The badge is worn on the outside of clothing easily clipped to a collar or suspended by a lanyard around the neck. A clip is provided on the front face of the badge to allow for facility ID cards to be easily attached. A raised, accessible badge call button can be used to request pages or to send alerts. The IR transmissions are location-specific, as IR signal transmissions will not penetrate walls or floors. RF signals provide a supervisory signal as well as instantaneous transmission of the page request/alert button press.

## HARDWARE SPECIFICATIONS

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Size:</b>           | 2" x 2" x 3/8"                                          |
| <b>Weight:</b>         | 1.5 oz without clothing clip                            |
| <b>Housing:</b>        | Gray polycarbonate with colored polycarbonate window    |
| <b>Battery:</b>        | Standard 3 AAAA                                         |
| <b>Angle:</b>          | 24 degrees                                              |
| <b>IR Output Type:</b> | Digitized infrared (IR) light, non-visible              |
| <b>RF Frequency:</b>   | 433.9 / 418 MHz                                         |
| <b>IR Wavelength:</b>  | 875 nanometers, 447.5 KHz                               |
| <b>IR Range:</b>       | 16+ feet                                                |
| <b>RF Range:</b>       | 230+ feet                                               |
| <b>IR Peak Output:</b> | 0.3 Watts $\pm$ 5%                                      |
| <b>RF Peak Output:</b> | < 1 mW                                                  |
| <b>Duty Cycle:</b>     | < 1%                                                    |
| <b>ID:</b>             | 16 bit ID packet, 42 bits total                         |
| <b>Environmental:</b>  | 32 - 125 Degrees F., 1 to 100% humidity, non-condensing |
| <b>Storage Temp:</b>   | 0 - 130 Degrees F., 1 to 100% humidity.                 |

## FEATURES

- Integrated with IR & RF capabilities
- Communication /non-line of sight
- Small and lightweight
- Low battery indicator
- Preset identification codes
- Easy battery replacement
- Page request/alert button
- Durable polycarbonate construction
- Passive location operation
- ID badge clip

Manufactured by **VERSUS TECHNOLOGY, INC.** 2600 Miller Creek Road, Traverse City, MI 49684 (616) 946-5868

This product or its systems are covered by one or more of the following U.S. patents: 4,906,853; 5,017,794; 5,027,314; 5,119,104; 5,276,496; 5,355,222; 5,387,993; 5,548,637; 5,572,195.