



# Cervix Product Specifications Datasheet

## BU-2H8D Series Receivers



The Cervix SmarT™ **BU-2H8D** receiver features eight channels. Digital outputs are capable of each 2.5 A max and can provide on/off and PWM control. There are two analog channels that can be configured as 0-10v or 4-20mA inputs or 0-10v outputs. It accepts a broad range of input power operating voltages (from 7 to 28 VDC standard). All connections are made via a single cable, and the rugged

weatherproof enclosure allows the unit to operate worry free in harsh weather conditions.

SmarT™ base units feature seamless association to a SmarT™ handheld unit without the need to open the case. Using Direct Sequence Spread Spectrum (DSSS) wireless technology, the base unit provides a robust link with a SmarT handheld remote in congested radio environments.

*Some base unit models available with STOP: PLd, Category 3 according to EN ISO 13849-1-2008.*



- 2.4 GHz Spread Spectrum Technology
- Power FET Cutoff
- Eight FET Outputs/Inputs
- High Side or Low Side Outputs
- Diagnostic LED outputs
- Current Sense Capable
- CAN Bus Capable
- Two Analog Inputs/Outputs Capable
- Single connector for ease of wiring
- Compact Weatherproof Design
- IEC 60950 Certified

### POWER

**Operating  $V_{in}$ :** +7 to +28 VDC  
**Operating Power:** 1 W maximum

### RADIO

**Frequency:** 2405–2480 MHz @ 200mW\*  
**License:** License-Free  
**Modulation:** Direct Sequence Spread Spectrum (DSSS)  
**Antenna:** Internal or External

\*Depending on the type of measurement performed, the value can vary between 100–200 mW.

### ENVIRONMENT

**Operating Temperature:** -40°C to 70°C (-40°F to 158°F)  
**Storage Temperature:** -40°C to 85°C (-40°F to 185°F)  
**Humidity:** 0 to 100%  
**Vibration/Shock:** IEC60068-2-6  
 10 Hz to 150 Hz @ 1.0 g peak acceleration  
 10.0 g peak shock acceleration

### INPUTS/OUTPUTS

**Eight FET:** Open Drain  
**Two Analog:** 0–10 V input/4–20 mA input  
**(Optional):** 0–10 V output  
**Maximum Current:** M7 and M8 analog when chosen  
 2.5 A Per Channel  
 Total 15 A max @ 55° C (131° F)

### INDICATOR LEDs (all red)

**Unnamed ( $V_{in}$ ):** OK when inactive;  
 Polarity reversed when active  
**+V1 – +V3\*:** OK when lit steady  
**1 (Health):** OK when blinking once/second  
**2 (RF TX):** Blinking when actively transmitting  
**3 (RF RX):** Blinking when actively receiving  
**4 (CAN TX):** Blinking when actively transmitting  
**5 (CAN RX):** Blinking when actively receiving  
**6 (OUT):** Active output when blinking once per second  
**7 (IN):** Active input when blinking once per second  
**8 (ERR):** ERROR when lit steady

\*The +V3 LED is not active for all BU variants.

### ENCLOSURE

**Dimensions:** Millimeters: 133 x 118 x 36  
 Inches: 5.24 x 4.65 x 1.42  
**Total Weight:** 0.24 kg (0.5 lbs)  
**Durability:** High Impact Polymer Case  
**Mounting:** 7.4 mm (0.29 inches) diameter holes  
 102 mm (4 inches) center-to-center



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