SmaRT BU-xH6R Base Unit

Features

- ✓ 900MHz or 2.4GHz Direct Sequence Spread Spectrum Technology
- ✓ Six Form C Relay Outputs
- ✓ Diagnostic LED outputs
- ✓ Weatherproof compact design
- ✓ Optional external antenna
- ✓ Optional J1939 CAN interface
- ✓ Dual cable connectors

The SmaRT Base Unit BU-xH6R features six Form C relay outputs, each 8A max. The standard BU-xH6R operates using 110/230 volts AC or DC. It is also available for low-voltage DC or AC power input. All connections are made via dual 12-wire cables using uniquely keyed connectors to guard against cross connection. The rugged weatherproof enclosure allows the unit to operate worry free in harsh weather conditions.

SmaRT base units feature seamless association to a SmaRT hand-held unit without the need to open the case. Using Direct Sequence Spread Spectrum (DSSS) wireless technology at 900MHz or 2.4GHz, the base unit provides a robust link with a SmaRT Hand-Held Remote in congested radio environments.

Specifications

V_{in}

BU-xH6R-INT-HVU	100–240 VAC @ 47– 440Hz or +120-+340VDC
BU-xH6R-EXT-HVU	100–240 VAC @ 47– 440Hz or +120-+340VDC
BU-xH6R-INT-LVD	+7 – +32VDC
BU-xH6R-EXT-LVD	+7 – +32VDC
BU-xH6R-INT-LVA	7 – 28VAC
BU-xH6R-EXT-LVA	7 – 28VAC
Operating Power	5W max.

Enclosure

Dimensions	mm: 133 x 118 x 36 inch: 5.24 x 4.65 x 1.42
Weight	340g (0.75 lbs.)
Durability	High Impact Polymer

Outputs

Six	Relay, Form C per
Rating per	8A max. switching @ 250VAC or VDC 100mA min. @ 5VDC
Total	48A max.

RS-232*

Settings	19,200 bits/sec, N, 8, 1

**(Not available with CAN option)*

Radio

Frequency	906–924MHz; 2405–2480MHz
RF Power	10mW @ 900MHz; 100mW @ 2.4.GHz
License	None required
Modulation	DSSS
Antenna	Internal or external

LEDs

CAN TX/RX	Green	–	Receive
	Red	–	Transmit
Out	Green	–	Active Output
Health	Green/sec	–	OK
RF TX/RX	Green	–	Receive
	Red	–	Transmit
Power	Amber	–	OK
	Red/Green	–	Fault

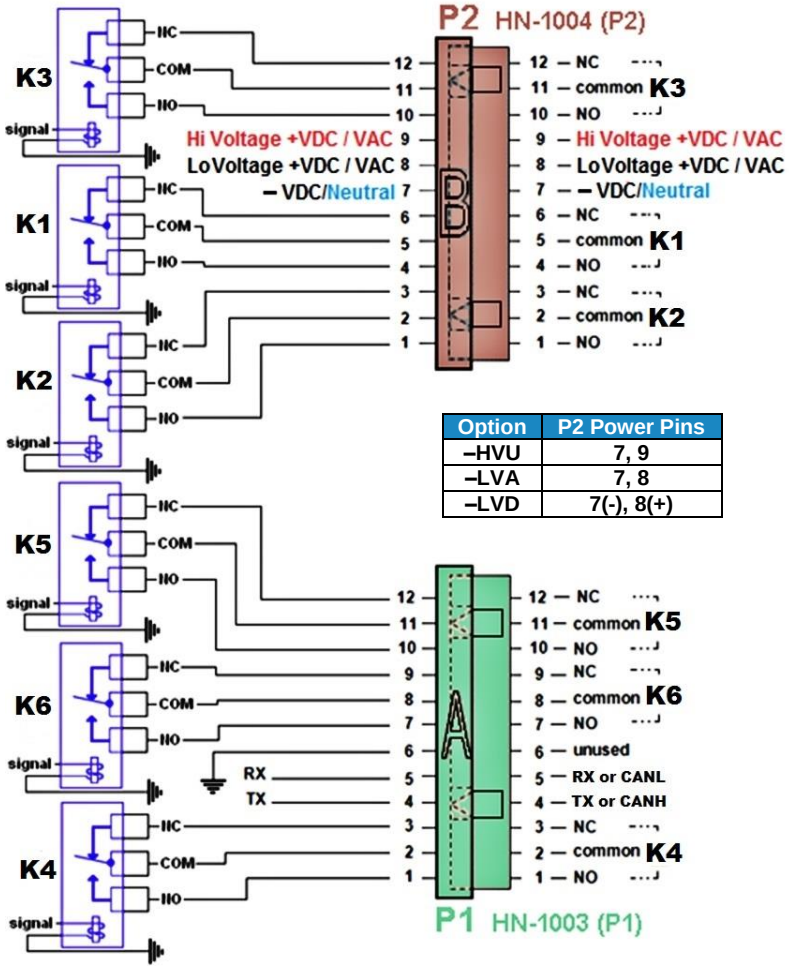
Environment

Operating Temp	-25°C to 60°C (-13°F to 140°F)
Storage Temp	-40°C to 85°C (-40°F to 185°F)
Humidity	0 to 100%
Vibration/Shock	IEC60068-2-6
	10Hz to 150Hz @ 1.0*g* peak acceleration
	10.0*g* peak shock acceleration

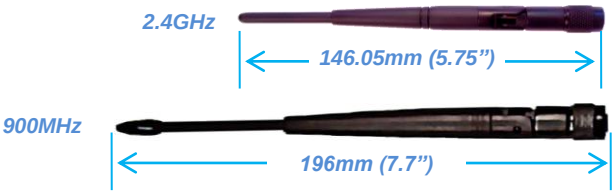
CAN Option

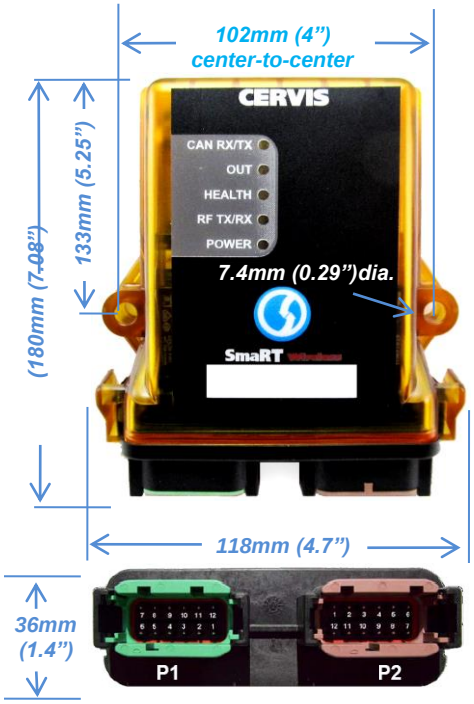
Protocol	SAE J1939

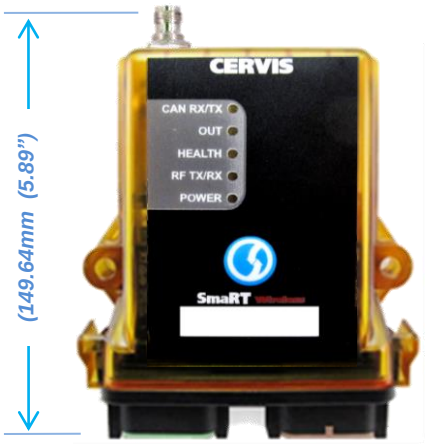
Cable Wiring and Connection



Option	P2 Power Pins
–HVU	7, 9
–LVA	7, 8
–LVD	7(-), 8(+)







BU-xH6R Hardware Options

Model	Freq	RF Pwr	Input Pwr	Antenna	Serial Port	AC sup	SmaRT Connect
BU-9H6R-INT-LVD	900MHz	10mW	7–32VDC	Internal	RS-232	Yes	Yes
BU-9H6R-INT-LVD-CAN✓	900MHz	10mW	7–32VDC	Internal	CAN	Yes	Yes
BU-9H6R-INT-LVD-NOS	900MHz	10mW	7–32VDC	Internal	RS-232	No	Yes
BU-9H6R-INT-LVD-NOS-CAN✓	900MHz	10mW	7–32VDC	Internal	CAN	No	No
BU-9H6R-INT-LVA	900MHz	10mW	7–280VAC	Internal	RS-232	Yes	Yes
BU-9H6R-INT-LVA-CAN✓	900MHz	10mW	7–28VAC	Internal	CAN	Yes	No
BU-9H6R-INT-LVA-NOS	900MHz	10mW	7–28VAC	Internal	RS-232	No	Yes
BU-9H6R-INT-LVA-NOS-CAN✓	900MHz	10mW	7–28VAC	Internal	CAN	No	No

Model	Freq	RF Pwr	Input Pwr	Antenna	Serial Port	AC sup	SmaRT Connect
BU-9H6R-INT-HVU	900MHz	10mW	100-240VAC	Internal	RS-232	Yes	Yes
BU-9H6R-INT-HVU-CAN✓	900MHz	10mW	100-240VAC	Internal	CAN	Yes	No
BU-9H6R-INT-HVU-NOS	900MHz	10mW	100-240VAC	Internal	RS-232	No	Yes
BU-9H6R-INT-HVU-NOS-CAN✓	900MHz	10mW	100-240VAC	Internal	CAN	No	No
BU-9H6R-EXT-LVD	900MHz	10mW	7–32VDC	External	RS-232	Yes	Yes
BU-9H6R-EXT-LVD-CAN✓	900MHz	10mW	7–32VDC	External	CAN	Yes	No
BU-9H6R-EXT-LVD-NOS	900MHz	10mW	7–32VDC	External	RS-232	No	Yes
BU-9H6R-EXT-LVD-NOS-CAN✓	900MHz	10mW	7–32VDC	External	CAN	No	No
BU-9H6R-EXT-LVA	900MHz	10mW	7–28VAC	External	RS-232	Yes	Yes
BU-9H6R-EXT-LVA-CAN✓	900MHz	10mW	7–28VAC	External	CAN	Yes	No
BU-9H6R-EXT-LVA-NOS	900MHz	10mW	7–28VAC	External	RS-232	No	Yes
BU-9H6R-EXT-LVA-NOS-CAN✓	900MHz	10mW	7–28VAC	External	CAN	No	No
BU-9H6R-EXT-HVU	900MHz	10mW	100-240VAC	External	RS-232	Yes	Yes
BU-9H6R-EXT-HVU-CAN✓	900MHz	10mW	100-240VAC	External	CAN	Yes	No
BU-9H6R-EXT-HVU-NOS	900MHz	10mW	100-240VAC	External	RS-232	No	Yes
BU-9H6R-EXT-HVU-NOS-CAN✓	900MHz	10mW	100-240VAC	External	CAN	No	No
BU-2H6R-INT-LVD	2.4GHz	100mW	7–32VDC	Internal	RS-232	Yes	Yes
BU-2H6R-INT-LVD-CAN✓	2.4GHz	100mW	7–32VDC	Internal	CAN	Yes	Yes
BU-2H6R-INT-LVD-NOS	2.4GHz	100mW	7–23VDC	Internal	RS-232	No	Yes
BU-2H6R-INT-LVD-NOS-CAN✓	2.4GHz	100mW	7–32VDC	Internal	CAN	No	No
BU-2H6R-INT-LVA	2.4GHz	100mW	7–28VAC	Internal	RS-232	Yes	Yes
BU-2H6R-INT-LVA-CAN✓	2.4GHz	100mW	7–28VAC	Internal	CAN	Yes	No
BU-2H6R-INT-LVA-NOS	2.4GHz	100mW	7–28VAC	Internal	RS-232	No	Yes
BU-2H6R-INT-LVA-NOS-CAN✓	2.4GHz	100mW	7–28VAC	Internal	CAN	No	No
BU-2H6R-INT-HVU	2.4GHz	100mW	100-240VAC	Internal	RS-232	Yes	Yes
BU-2H6R-INT-HVU-CAN✓	2.4GHz	100mW	100-240VAC	Internal	CAN	Yes	No
BU-2H6R-INT-HVU-NOS	2.4GHz	100mW	100-240VAC	Internal	RS-232	No	Yes
BU-2H6R-INT-HVU-NOS-CAN✓	2.4GHz	100mW	100-240VAC	Internal	CAN	No	No
BU-2H6R-EXT-LVD	2.4GHz	100mW	7–32VDC	External	RS-232	Yes	Yes
BU-2H6R-EXT-LVD-CAN✓	2.4GHz	100mW	7–32VDC	External	CAN	Yes	No
BU-2H6R-EXT-LVD-NOS	2.4GHz	100mW	7–32VDC	External	RS-232	No	Yes
BU-2H6R-EXT-LVD-NOS-CAN✓	2.4GHz	100mW	7–32VDC	External	CAN	No	No
BU-2H6R-EXT-LVA	2.4GHz	100mW	7–28VAC	External	RS-232	Yes	Yes
BU-2H6R-EXT-LVA-CAN✓	2.4GHz	100mW	7–28VAC	External	CAN	Yes	No
BU-2H6R-EXT-LVA-NOS	2.4GHz	100mW	7–28VAC	External	RS-232	No	Yes
BU-2H6R-EXT-LVA-NOS-CAN✓	2.4GHz	100mW	7–28VAC	External	CAN	No	No
BU-2H6R-EXT-HVU	2.4GHz	100mW	100-240VAC	External	RS-232	Yes	Yes
BU-2H6R-EXT-HVU-CAN✓	2.4GHz	100mW	100-240VAC	External	CAN	Yes	No
BU-2H6R-EXT-HVU-NOS	2.4GHz	100mW	100-240VAC	External	RS-232	No	Yes
BU-2H6R-EXT-HVU-NOS-CAN✓	2.4GHz	100mW	100-240VAC	External	CAN	No	No

✓Note: BU-xH6R-CAN units are internally terminated at 4.2kΩ.
Termination can be removed at the factory.