6.0 BU-x18XF and BU-xH18XF Specifications

Table 3. SmaRT BU-x18XF and BU-xH18XF Specifications

Item	Description			
Power	**V_{in}**	+7 to +28 VDC		
Radio	**Frequencies**	BU-218XF: 2405 – 2480 MHz @ 2 mW BU-2H18XF: 2405 – 2480 MHz @ 100 mW BU-9H18XF: 906 – 924 MHz @ 10 mW		
	License	License-Free		
	Modulation	Channel-Hopping DSSS		
	Antenna	Internal or External (RP-TNC)		
Environment	**Operating Temp**	–20° C to 55° C (–4° F to 131° F)		
	Storage Temp	–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		
LED Indicators (12 Red)	**Unmarked**	Polarity reversed when lit steady		
	+V1, +V2, +V3	Voltage – OK when lit steady		
	1	Health (blinks once per second when active)		
	2	RF TX (flashes when active)		
	3	RF RX (flashes when active)		
	4	CAN TX (flashes when active)		
	5	CAN RX (flashes when active)		
	6	Output (blinks once per second when active)		
	7	Input (blinks once per second when active)		
	8	Error (solid when active)		
Enclosure	**Dimensions**	mm: 133 x 118 x 36 (inch: 5.25 x 4.7 x 1.4)		
	Durability	High Impact Polymer		
	Mounting Holes	mm: 7.40 dia.; 102 center-to-center Inch: 0.29 dia.; 4.00 center-to-center		
Outputs/Inputs	**Eighteen**	FET—Open Drain		
	Current	3 A per channel 15 A Max. total @ 50° C (122° F)		
Digital I/O (18)	**Assignments**	**M1(Ch1)** P2–9	**M2 (Ch2)** P2–10	**M3 (Ch3)** P2–11
		M4 (Ch4) P2–12	**M5 (Ch5)** P2–1	**M6 (Ch6)** P2–2
		M7 (Ch7) P2–3	**M8 (Ch8)** P2–4	**M9 (Ch9)** P1–3
		M10 (Ch10) P1–4	**M11 (Ch11)** P1–5	**M12 (Ch12)** P1–6
		M13 (Ch13) P1–7	**M14 (Ch14)** P1–8	**M15 (Ch15)** P1–9
		M15 (Ch16) P1–10	**M17 (Ch17)** P1–2	**M18 (Ch18)** P1–11
Analog (2) (factory configurable)	**0–10 V or 4–20 mA**	**M17(Ch17)** P1–2	**M18 (Ch18)** P1–11	
Optional Umbilical Communications	**CAN Bus**	SAE J1939		
SmaRT Connect	**See Table 1**	Only units marked with –SC are RS-232 capable (CAN is not available) allowing *SmaRT Connect* use.		