ALWAYS ON TRACK

Resilient Navigation Under GNSS Interference

Cavemus Systems Association

		GPSdome Sunstone OEM / Single Band	GPSdome Sunstone OEM / Dual Band	GPSdome Sunstone Enclosed / Single Band	GPSdome Sunstone Enclosed /Dual Band	GPSdome 2	Otosphere Lighthouse OEM / Single Band	Otosphere Lighthouse OEM / Dual Band	Otosphere Lighthouse Enclosed / Single Band	Otosphere Lighthouse Enclosed / Dual Band
										
Physical	Weight - g	80	100	180	200	500	80	100	180	200
	Size - mm	76 x 55 x 22,2	76x55x30.8	80x78.5x28	80x78.5x33.5	99.4 x 95.7 x 56	76 x 55 x 22,2	76x55x30.8	80x78.5x28	80x78.5x33.5
Performance	Possible Protected Frequencies	choose 1 out of: L1 and E1 / L2 / L5 / G1	choose 2 out of: L1 and E1 / L2 / L5 / G1	choose 1 out of: L1 and E1 / L2 / L5 / G1	choose 2 out of: L1 and E1 / L2 / L5 / G1	choose 2 out of: L1 and E1 / L2 / L5 / G1	choose 1 out of: L1 and E1 / L2 / L5 / G1 (Does not support M-Code and SAASM)	choose 2 out of: L1 and E1 / L2 / L5 / G1 (Does not support M-Code and SAASM)	choose 1 out of: L1 and E1 / L2 / L5 / G1 (Does not support M-Code and SAASM)	choose 2 out of: L1 and E1 / L2 / L5 / G1 (Does not support M-Code and SAASM)
	Possible Passthrough Frequencies	choose 2 different from protected out of: L1 and E1 / L2 / L5 / G1	choose 2 different from protected out of: L1 and E1 / L2 / L5 / G1	choose 2 different from protected out of: L1 and E1 / L2 / L5 / G1	choose 2 different from protected out of: L1 and E1 / L2 / L5 / G1	choose 2 different from protected out of: L1 and E1 / L2 / L5 / G1	choose 2 different from protected out of: L1 and E1 / L2 / L5 / G1	choose 2 different from protected out of: L1 and E1 / L2 / L5 / G1	choose 2 different from protected out of: L1 and E1 / L2 / L5 / G1	choose 2 different from protected out of: L1 and E1 / L2 / L5 / G1
	Latency	100ns ±15ns | fixed	100ns ±15ns | fixed	100ns ±15ns | fixed	100ns ±15ns | fixed	~100ns	> 100ns	> 100ns	> 100ns	> 100ns
	Compression Point	-23dBm	-23dBm	-23dBm	-23dBm	P1dB -25dBm	-23dBm	-23dBm	-23dBm	-23dBm
	Path Gain	+/-3dB	+/-3dB	+/-3dB	+/-3dB		+/-3dB	+/-3dB	+/-3dB	+/-3dB
	Insertion Loss	-	-	-	-	6dB	-	-	-	-
RF Interfaces	Antennas Input	A1,A2 50Ω SMA 2.7-14VDC | Max 40mA per connector | 15dB -40dB gain	A1,A2 50Ω SMA 2.7-14VDC | Max 40mA per connector | 15dB -40dB gain	A1,A250Ω SMA 2.7-14VDC | Max 40mA per connector | 15dB -40dB gain	A1,A250Ω SMA 2.7-14VDC | Max 40mA per connector | 15dB -40dB gain	50Ω SMA 2.5VDC-5VDC (Active antenna with gain range between 26dB to 32dB)	A1,A2 50Ω SMA 2.7-14VDC | Max 40mA per connector | 15dB -40dB gain	A1,A2 50Ω SMA 2.7-14VDC | Max 40mA per connector | 15dB -40dB gain	A1,A2 50Ω SMA 2.7-14VDC | Max 40mA per connector | 15dB -40dB gain	A1,A2 50Ω SMA 2.7-14VDC | Max 40mA per connector | 15dB -40dB gain
		RX/RX1 50Ω SMA	RX/RX1 50Ω SMA	RX/RX1 50Ω SMA	RX/RX1 50Ω SMA	50Ω SMA	RX1 50Ω SMA	RX1 50Ω SMA	RX1 50Ω SMA	RX1 50Ω SMA
	Receiver Output	RX2/ OUT2 50Ω SMA Not protected - For sec. receiver/heading calculations	RX2/ OUT2 50Ω SMA Not protected - For sec. receiver/heading calculations	RX2/ OUT2 50Ω SMA Not protected - For sec. receiver/heading calculations	RX2/ OUT250Ω SMA Not protected - For sec. receiver/heading calculations		RX2* 50Ω SMA *Not protected - For secondary receiver/heading calculations	RX2* 50Ω SMA *Not protected - For secondary receiver/heading calculations	RX2* 50Ω SMA *Not protected - For secondary receiver/heading calculations	RX2* 50Ω SMA *Not protected - For secondary receiver/heading calculations
RF Connectors Type		MMCX Female	MMCX Female	SMA Female	SMA Female					
Wire Connection Description	Power Supply	6-32VDC Positive (+) GND (-)	6-32VDC Positive (+) GND (-)	6-32VDC Positive (+) GND (-)	6-32VDC Positive (+) GND (-)	Red Power supply positive terminal (6vdc-32vdc) Black Power supply negative terminal	6-32 VDC Avg ~ 3W** Positive (+) Red GND (-) Black ** For Single Band version	6-32 VDC Avg ~ 3W** Positive (+) Red GND (-) Black ** For Single Band version	6-32 VDC Avg ~ 3W** Positive (+) Red GND (-) Black ** For Single Band version	6-32 VDC Avg ~ 3W** Positive (+) Red GND (-) Black ** For Single Band version
	Dry Contacts Jamming indication	Max 32V 50mA Positive Negative	Max 32V 50mA / Positive / Negative	Max 32V 50mA / Positive / Negative	Max 32V 50mA / Positive / Negative	Purple - positive terminal Green - negative	Max 32V 50mA / Positive (Purple) Negative (Green)	Max 32V 50mA / Positive (Purple) Negative (Green)	Max 32V 50mA / Positive (Purple) Negative (Green)	Max 32V 50mA / Positive (Purple) Negative (Green)
	UART for Status and Maintenance	UART RX / UART TX / VCC 5v+ GND	UART RX / UART TX / VCC 5v+ GND	UART RX / UART TX/ VCC 5v+ GND	UART RX / UART TX / VCC 5v+ GND	Orange UART RX / Yellow UART TX Blue UART GND	UART RX (Gray) / UART TX (Yellow) VCC 5v+ (White) / GND (Blue) No Built-in GNSS receiver	UART RX (Gray) / UART TX (Yellow) VCC 5v+ (White) / GND (Blue) No Built-in GNSS receiver	UART RX (Gray) / UART TX (Yellow) VCC 5v+ (White) / GND (Blue) No Built-in GNSS receiver	UART RX (Gray) / UART TX (Yellow) VCC 5v+ (White) / GND (Blue) No Built-in GNSS receiver
LED Indicator	Red	System Error	System Error	System Error	System Error	System Error	System Error	System Error	System Error	System Error
	Flashing Red	System Initialization	System Initialization	System Initialization	System Initialization	System Initialization				
	Green	System Operating no jamming detected	System Operating no jamming detected	System Operating no jamming detected	System Operating no jamming detected	System Operating no jamming detected	Stop mode (Service)	Stop mode (Service)	Stop mode (Service)	Stop mode (Service)
	Flashing Green						Standby mode, Bypass mode	Standby mode, Bypass mode	Standby mode, Bypass mode	Standby mode, Bypass mode
	Flashing Orange						High power Jamming detected	High power Jamming detected	High power Jamming detected	High power Jamming detected
	Flashing Green/Orange	System Operating jamming detected	System Operating jamming detected	System Operating jamming detected	System Operating jamming detected	System Operating jamming detected	System active, jamming detected	System active, jamming detected	System active, jamming detected	System active, jamming detected
Environmental	Operating Temperature	-40°C to 71°C	-40°C to 71°C	-40°C to 71°C	-40°C to 71°C	-40°C to 71°C	-40°C to 71°C	-40°C to 71°C	-40°C to 71°C	-40°C to 71°C
	Waterproof Rating	NO	NO	IP65	IP65	IP65	NO	NO	IP 65	IP 65
Mounting		4 x M3 screw (not supplied)	4 x M3 screw (not supplied)	4 x M3 screw (not supplied)	4 x M3 screw (not supplied)	4 x 8-32 bolts (not supplied)	4 x M3 screw (not supplied)	4 x M3 screw (not supplied)	4 x M3 screw (not supplied)	4 x M3 screw (not supplied)

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