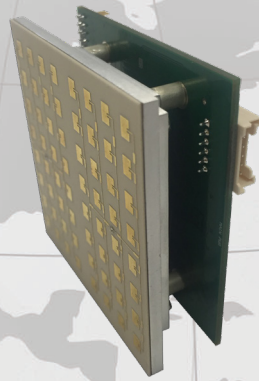


Technical Specifications

System Interface 3 Compact
(SI-3C)[™]
Special Application Radar



www.DecaturElectronics.com
Phone: 800.428.4315

General Specifications	
Type	Special Application Radar
Accuracy	100% accurate with a resolution of ± 0.10 unit of measure (± 0.10 mph, ± 0.10 km/h)
Ambient Operating Temperature	-22° F to +158° F (-30° C to +70° C)
Available Frequencies	K-Band
Communications	RS232. Parameters can be changed via serial port
Controls	Adjustable through software.
Cosine - Horizontal	0 - 45° (Default = 0)
Cosine - Vertical	0 - 45° (Default = 0)
Data Format (Default)	<D> [SSS] <cr> D = Direction, S = Speed, cr = Carriage Return (Note: Various other protocols can be selected)
Data Hold Time	100 to 9999 ms (Default is 2000 ms)
Data Rate	1200, 2400, 9600, 19200, 38400, 57600 & 115200 baud rates. (Default is 9600 baud)
Detection Range	3,000 ft maximum (0.914 km) (Default is 1,500 ft (0.46 km))
Directionality	Towards, Away, or Both Directions (Default is Towards)
Features	DSP, 32 bit processing.
Maximum Humidity	100% Relative Humidity
Update Rate	Selectable 1 - 10 Seconds
Power	+12 VDC nominal
Speed Range	1 - 330 mph (2- 480 km/h) 10 - 440 fps (1 - 133 m/s) (Min/Max user selectable)

General Specifications - continued	
Speed Measurements	mph, km/h, feet-per-second, & meters-per-second (Default is mph)
Sensitivity	Adjustable from 1 - 10
Standard Warranty	One-year parts & labor
Target Acquisition Time	20 ms

Mechanical	
Height	2.5" (6.35 cm)
Width	2.5" (6.35 cm)
Depth	1.00" (2.54 cm)
Weight	8 oz (0.227 kg)

Electrical	
Power Requirements	+10.8 VDC to +24 VDC
Low Voltage Shutdown	+10.8 VDC
Minimum Current Draw	0.09 ampere @ 12 VDC
Nominal Current Draw	0.09 ampere @ 12 VDC
Surge Current Requirements	150 milliamperere

Microwave	
Type	K-band
FCC Identifier	VECDF6
Frequency	24.120 GHz ~ 24.130 GHz
Beam Width	12° Horizontal x 24° Vertical
Polarization	Linear
Power Output (EIRP)	20 dBm
Side Lobe Rejection	19 dBm typical