



SI-3 System Interface

Special Application Radar



- K-Band Antenna
- Directional
- RS232 Serial Port
- Stationary Mounted Radar System
- 5 - 150 mph (8 - 241 km/h) Speed Range
- Range: 1,500 ft (default setting) 3,000 ft (maximum range)
- Highly Customizable To Meet Customer Needs

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radar trailers video

SI-3 ANTENNA TECHNICAL SPECIFICATIONS

General

Antenna Frequency	K-band 24.150 GHz \pm 50 MHz
Nominal Power Out	10 mW nominal
Output Power Density	0.5 mW/cm ²
Beam Width	12 degrees
Range	1,500 ft (default setting) 3,000 ft (maximum range)
Speed Range	
Supply voltage	10.8VDC – 24VDC
Nominal current draw	+12V (180mA)+24V (120mA)
Surge current requirements	1 Amp
Operating temperature	-22°F to +158°F (-30°C to +70°C)
Maximum Humidity	100% (Unit is weatherproof, not waterproof)
Polarization	Linear
Input voltage	10.8 – 24VDC
Target acquisition time	50 ms

Serial communications RS232

Data rate	Baud rates 1200, 2400, 9600, 19200, 38400, 57600, 115200
Data format	<D> [SSS] <cr> (Default) Various other protocols can be selected

Mechanical

Weight	1.14 lbs. (0.52 kg)
Length	5.6 in (14.05 cm)
Width	3 in (7.6 cm) diameter horn 3.37 in (8.55 cm) diameter with mounting base

Accuracy

Speed Range	5 - 150 mph (8 - 240 km/h)
Accuracy	\pm 0.1 mph (\pm 0.1 km/h)

DB-9 Connector Pinout

Signal	DB-9 Connector
+12VDC power	1 (red)
RS232 TX	2 (white)
RS232 RX	3 (green)
Ground (shield)	5 (brown)
Ground	9 (black)

Output Rate (Programmable)

Selectable output rate when target speed changes	1-20 times per second
When polled Data hold time:	100 ms - 10 seconds
Low/high speed cutoff	

Sample Applications

Traffic Safety

- Speed Signs & Trailers
- Variable Message Displays

Manufacturers

- Control Systems
- Data Collection
- Motion Detection

Sports

- Scoreboards
- Video Overlays
- SI-Arcade Series Available



Certified ISO 9001

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