LOWEST COST TIMING DETECTOR

ASSEMBLY REQUIRED

The GROOT SYSTEM is the lowest cost Orbiter Offering. It requires assembly by attaching a cable, antenna, and power supply to the RFID detector. The system competes with other "build it yourself" systems offered in the market place. The GROOT has Superior performance as it uses the same RFID readers as other Orbiter products. The system is powered by AC.

Included is embedded operating software which is the same as that offered with the SPIRE, SLING and SPARKY detectors.

Read range depends on antenna selected. The standard antenna provides 6 ft of read range.

For those that desire a solution that is similar or less expensive than Bar-code systems yet has the convenience and performance of RFID, the GROOT economically works and is high quality.
SLING PHYSICAL CHARACTERISTICS

Dimensions: 22” (H) x 15” (L) x 6” (W).
55.8 cm (L) x 38.1 cm (L) x 12.24 (W)
Weight: 13.4 lbs ( 6.08 kg ) including batteries.

SLING CONNECTIVITY

Communications: Proprietary RF communications to application layer. 10/100 Base T Ethernet (RJ45) w POE support, USB Client (USB Type B), USB Hoist Port (Type A).
I/O 2 input, 32 outputs, optically isolated (Terminal Block).

General Purpose
POE, POE+ or + 24 V DC (UL Approved), 120 and 220 AC Marine Plug.

Power Supply: Standard Multi Ports connected to Orbiter Phased Detect antenna.
Antenna Ports: Optional 4 and 8 port models available for connecting customer selected antennas.

SLING ENVIRONMENTAL

Humidity 5-95% non-condensing

SLING REGULATORY COMPLIANCE

Safety FCC Part 15, RSS 210, EN 302 208, ICES-003 Class B, EN 301 489-1/3, IC school broadcast, regional pre-approval.
RF/EMI/EMC UL 60950-01, UL 2043, IEC 60950-1, EN 90950-1

SAR/MPE FCC 47CFR2: OET Bulletin 65; EN 50364

SLING HARDWARE, OS AND FIRMWARE MANAGEMENT

Memory Flash 512 MP, DRAM 256 MP
Operating System Linux
Application Code: Java
Firmware Upgrade Web-based and remote firmware upgrade capabilities
Management Protocols RM 1.0.1 (with XML over HTTP/HTTPS and SNMP and NTP
Network Stack IPv4 and IPv6
Security Transport Layer Security Ver 1.2 FIPS 140
Air Protocols EPCglobal UHF Class 1 Gen2 ISO 18000 BC
Frequency Band Global Reader 902 MHz – 928 MHz (Maximum, supports countries that use a part of this band) 865 MHz – 869 MHz, 2.4 GHz International Accepted Wi-Fi band, and Country specific accepted data cellular band.

Transmit Power Output 10 dBm to +31.5 dB, (POE+) 24 volt External DC) +10dBm to +30.0 dBm (POE).
Max Receive Sensitivity -82 dBm
IP Addressing Static and Dynamic
HOST Interface Protocol ORP and LLRP
API Supported Host Applications – Java EDK and Net C, Embedded Applications Java SDK
Warranty 1 year all parts and labor

RECOMMENDED SERVICES Annual Service and Support includes all parts and labor warranty extension plus automatic software upgrades for 18% of sale price annually.
Advanced Services RFID design and world wide deployment including IC tag & antenna design, reader build (LF, HF, NFC, UHF, Microwave, IR), application software for local and cloud scaled for super computers. Global reach with in country technicians to service your needs.