



ORBITER SLING RFID PATH - ORIENTEERING - SPECIFICATION

ADVANCED ORIENTEERING READER

Mobile Rugged Performance with Controllable RFID read Distance. Line Busting ability.

Multiple tag reads instantly; Long 36 hour battery life; Light weight; Military grade back pack. Just set down and turn on. Unlimited number of readers may be connected. Perfect for Obstacle Courses and Triathlon like events any where in the world.

Controllable RFID read distance from 6 inches to 40 feet.

The PATH SLING allows ultimate mobility with advanced RF communications. Superior performance with 24 volts of power. Communicates to a rugged military specification tablet or laptop for extreme weather outdoor use and in direct sun light. Proven performance in Arctic, Desert, and Tropical Conditions.

The only long range RFID of it's kind that is able to time PATH events with large numbers of participants. PATH events may be set up for start at any reader, allowing participants to choose an optimum PATH, or by a set course. Perfect for Wilderness Environments. Proven on Mountain Tops in mid winter, desert and tropical locations. No mats or Overhead structures. Software designed for scoring Orienteering events and more. Orbiter software provides real time results, splits, and more. Just turn the readers and server "on" and connectivity is automatic. No need for IP addressing.

24 volts and optional AC provides increased voltage the Orbiter SLING for robust tag detections in a crowded environment. Passive 3D-Tag designed for Triathlons reads in all directions. The tag read distance controlled by power output setting from 3 feet to 40 feet even when placed on metal and the human body.

Easy to use software loaded on a optional military spec tablet has heart beat and watch dog monitoring. Standard Laptop may be used. Operation in logging mode or real time mode. Connectivity to SLINGS may be monitored on "Bollard Control" with each SLING showing a "Green Line" proving real time connectivity indicating status and tag detects when set to real time mode. Software is a tool that allows for quick configuration such that any human powered event may be timed. Real time display with windows military spec tablet.

Software optimized for military use and advanced training. Able to time any human powered event. Laps, spits, point to point times included.

Included are Standard AGM batteries safe for airline travel. Rechargeable batteries and DC / AC operation. Solves issues found with classic Orienteering devices such as slow read and write speeds.

Optional: Anywhere in the world real time tracking using Iridium Satellites. Near Real Time Operation available and Extra Ports for connecting additional antennas. UHF or Microwave RFID.



SLING PHYSICAL CHARACTERISTICS

Dimensions: 22" (H) x 18" (L) x 7" (W).
 55.8 cm (L) x 38.1 cm (L) x 12.24 (W)
Weight: 13.4 lbs (6.08 kg) including batteries.
Housing Material: Anti Static Foam in a Rugged sling bag, plastics.
Visual Status Indicators: Multi Color LED's for power condition and application status.
Mounting: Mobile placement with high quality in-line skate wheels with bearings for smooth roll on surface.

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).
General Purpose I/O 2 input, 32 outputs, optically isolated (Terminal Block).
Power Supply: POE, POE+ or + 24V DC (UL Approved), 120 and 220 AC Marine Plug.
Antenna Ports: Standard Multi Ports connected to Orbiter Phased Detect antenna. Optional 4 and 8 port models available for connecting customer selected antennas.

ENVIRONMENTAL

Operating Temp – Min -23 degrees F (-30.5) Vancouver, BC, Canada, Nov 30, 2015.
 High 131 degrees F, 55 degrees C, Death Valley, CA, July 2015.
Humidity 5-95% non-condensing
Shock and Vibration: MIL-STD-810G

REGULATORY COMPLIANCE

Safety UL 60950-01, UL 2043, IEC 60950-1, EN 90950-1
RF/EMI/EMC FCC Part 15, RSS 210, EN 302 208, ICES-003 Class B, EN 301 489-1/3, MIC school broadcast, regional pre-approval.
SAR/MPE FCC 47CFR2: OET Bulletin 65; EN 50364
Other: ROHS, WEEE

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 M

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.

