

RAISR



**RESILIENT
POSITIONING**



LOW SWaP



**ADVANCED
INTERFERENCE
MITIGATION**



**SITUATIONAL
AWARENESS**



RESILIENT POSITIONING

RAISR Resilient Assured Integrated Single-Antenna Receiver, provides low size, weight and power (SWaP) for fast integration. RAISR technology enables assured PNT with multi-constellation, multi-frequency positioning.

MULTI-FREQUENCY RESILIENCE

RAISR includes all GNSS signals for multi-frequency resiliency against interference, jamming and spoofing attacks. RAISR can be combined with powerful external anti-jam antennas for enhanced protection.

FEATURES

- / Low SWaP PNT system
- / Independent positioning on all frequencies
- / Commercially exportable
- / Signal intelligence features: spectrum analysis jamming and spoofing detection
- / Can be paired with external IMUs to bridge 3D positioning through GNSS outages

BENEFITS

- / Commercial off-the-shelf (COTS)
- / Assured positioning, navigation and timing through multi-constellation tracking and independent positioning methods

TECHNICAL SPECIFICATIONS

PHYSICAL AND ELECTRICAL

Dimensions	126.5mm x 60mm x 34mm
Weight	<160g
Input voltage	+5 - +15VDC
Power consumption	3 W (typical)

GNSS SIGNAL TRACKING

GPS	L1 C/A, L2C, L2P, L5
Galileo	E1, E5a, E5b, E6
BeiDou	B1, B2a, B2b, B3
QZSS	L1, L2, L5, L6
SBAS	L1, L5
NavIC	L5

TIME TO FIRST FIX

Cold start	< 34 s (typ)
Hot start	< 20 s (typ)

ACCURACY

Time accuracy	<5 ns RMS
Velocity accuracy	<0.03m/s RMS

VELOCITY LIMIT (without controls)

600m/s

CONNECTORS

2X ODU
1X SMA

DATA RATE

Up to 20Hz

CONNECTIVITY

2x RS232/LVTTL
1x PPS
1x Event-In

EXTERNAL ANTENNA OPTIONS:

