

Mobile Multi-band Antenna

MMA-RX NF Communication Link System



MMA-RX Communication Link system is a new addition to Smiths Interconnect's field proven line of Ground Control / Ground Data Terminal products. MMA-RX utilizes a three aperture design providing Quad band Data receive bandwidth in a single unit. The system features upgraded high efficiency apertures providing short to medium range link capability. The desired aperture is user selectable On-The-Fly through a flexible software interface, providing L/S, or C, or Ku Band capability within 3 seconds.

The system features a two axis (El over Az) antenna positioner assembly suitable for the harsh tactical environment. The antenna controller, power supply, LNA's, and all the necessary filters, and switches are all integrated into single LRU. The system also comes with an integrated North Finding system which facilitates rapid set-up and target acquisition. The combination of small size, rapid deployment, high gain, large instantaneous bandwidth, and dynamic capability directly benefit the tactical user by providing a low SWaP datalink for Line-of-Site communication at high data rates.

Specifically designed
to operate in harsh
tactical environments

Features & Benefits

- Small EL/Az configuration, provides light weight portable platform
- Quad-Band (L,S,C, & Ku) coverage
- Rx capability in all bands
- Built-in ACU, power supply, and axis control
- Integrated INS for fast set-up and target acquisition
- Flexible Command and Status Interface

Applications

- Ground based UAV Data link antenna
- For portable on the halt and low dynamic, on-the-move applications.
- Medium to Long Range Directional Antenna applications

Specifications subject to change without notice.
Export license may be required to ship to some countries.

Technical Characteristics

System Specifications

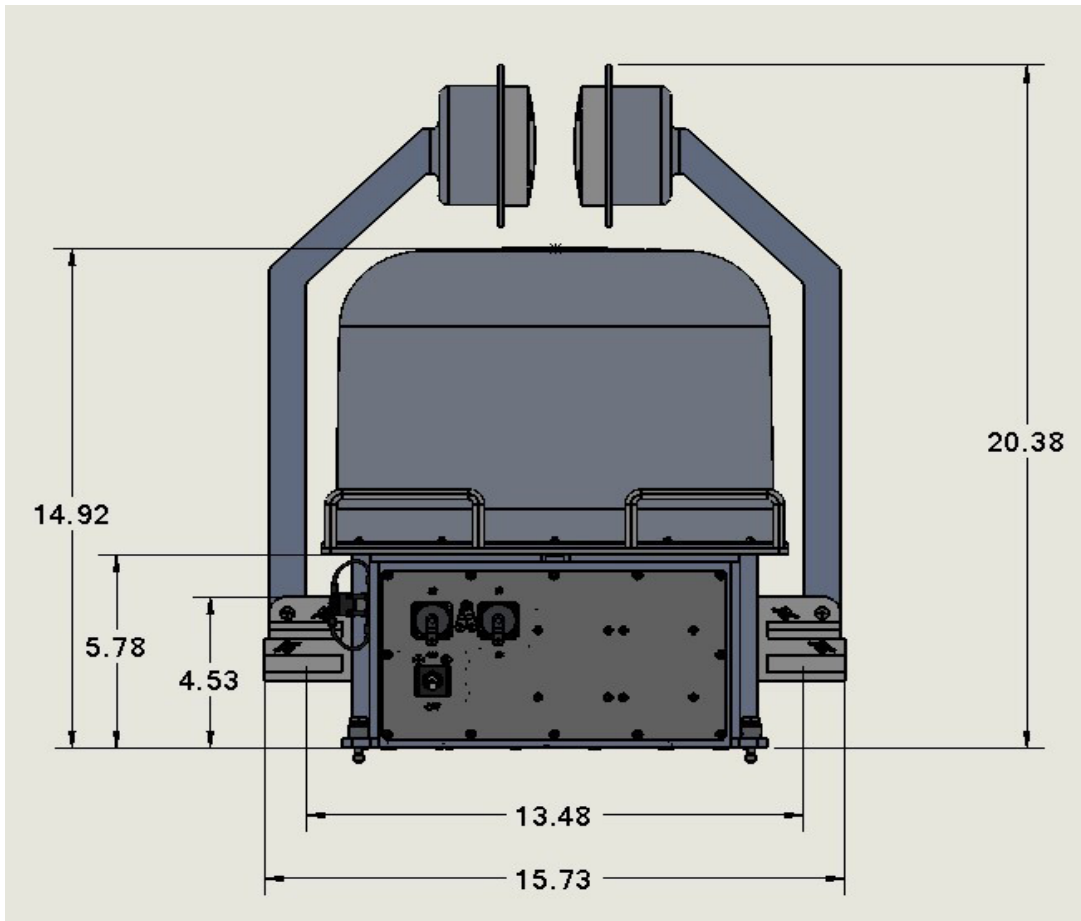
Frequency Band	Aperture Gain Min. /3dB beamwidth - Range (typical)
L-Band (1625 - 1710 MHz)	7.5 dBi / 61 - 65°
L-Band (1710 - 1850 MHz)	9.0 dBi / 57 - 61°
S-Band 2200 - 2500 MHz)	10.0 dBi / 41 - 48°
C-Band CONUS (4400 - 4950 MHz)	14.2 dBi / 19.7 - 23°
C-Band OCONUS (5250 - 5850 MHz)	17.0 dBi / 17.8 - 19.7°
Ku-Band (14.4 - 15.35 GHz)	25.0 dBi / 6 - 8°
Polarization	
L, S, & C Bands	Linear, Vertical
Ku Band	RHCP

Pedestal Specifications

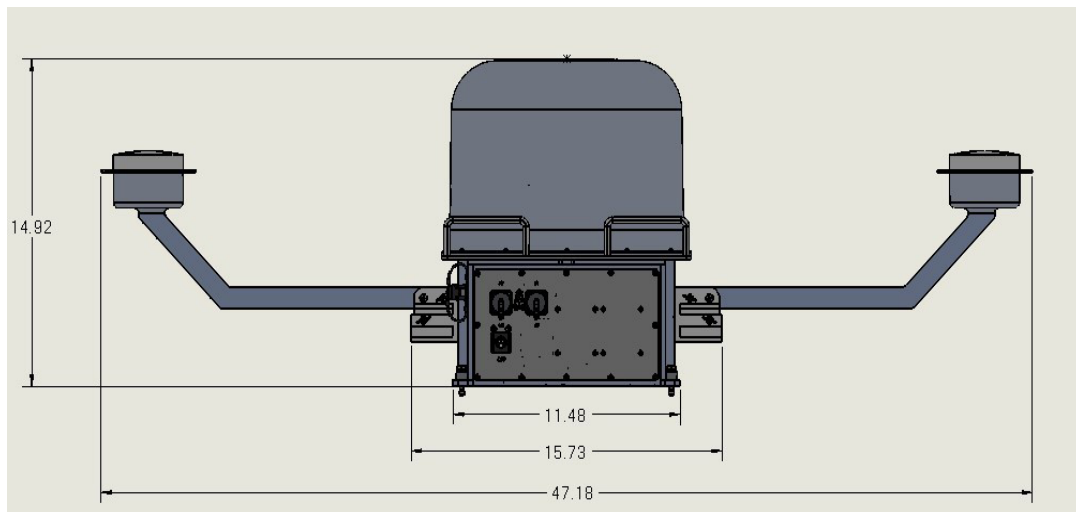
Axis Dynamics	
Velocity	30°/S AZ & 45°/S EL
Acceleration	60°/ S ²
Axis Range	
Azimuth	Continuous
Elevation	Continuous
SWAP & Comm.	
Size (Basic Pedestal)	14.5" Dia. x 15" H
Size (Transportation Mode)	16" Dia. X 20.75" H
Size (Operational Mode)	14.5" W x 47.5" L x 15" H
Weight	< 35 lbs.
Power consumption (Max)	28VDC, 120W Peak, 52W Ave.
Input Power range	10-30VDC
Non-Operating Temperature Range	-40 to +71C
Operating Temperature Range	-30 to +60C
Communication	RS-422 (ENET optional)

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Outline Dimensions - Transportation & Storage Mode



Outline Dimensions - Operational Mode



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Global Support

Americas

- Kansas City, KS
+1 913 342 5544
info.us@smithsinterconnect.com
- Tampa, FL
+ 1 813 901 7200
info.tampa@smithsinterconnectinc.com
- Milpitas, CA
+1 408 957 9607 x-1125
info.us@smithsinterconnect.com
- Kirkland, QC, Canada
+1 514 842 5179
info.us@smithsinterconnect.com
- Salisbury, MD
+1 800 780 2169
info.us@smithsinterconnect.com

Europe

- Deggendorf, Germany
+49 991 250 120
info.de@smithsinterconnect.com
- Rouen, France
+33 2 3296 9176
info.fr@smithsinterconnect.com
- Dundee, UK
+44 1382 427 200
info.dundee@smithsinterconnect.com
- Genova, Italy
+39 0 10 60361
info.it@smithsinterconnect.com

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