

ANTENNAS

Navigator



ANTENNAS NAVIGATOR

STYLE

	FLEXIBLE BLADE	STUBBY OR PATCH FOR GNSS	WHIP	THICK MONOPOLE & DIPOLE	OPTICAL HORN
Frequency	<ul style="list-style-type: none"> VHF 30-512 MHz 	<ul style="list-style-type: none"> Band (GPS L1 1575.42 MHz) Dual-band (GPS L1/L2 1227/1575 MHz) Iridium Gallileo Glonass Beidu 	<ul style="list-style-type: none"> VHF 30-512 MHz 	<ul style="list-style-type: none"> Range up to 6 GHz Multi-band 	<ul style="list-style-type: none"> V Band: 57 to 66 GHz 2 antenna versions that reach a gain of 32 dBi and 38 dBi
Construction	<ul style="list-style-type: none"> Water resistant up to 20 m Blade assembly Bidirectional blade assembly Stainless steel tape material covered with MIL-STD shrink tubing 	<ul style="list-style-type: none"> Low profile stubby Quadrifilar element (stubby) Ceramic patch 	<ul style="list-style-type: none"> Molded or over-molded TPU material UV, oil, fuel and fungus resistant Abrasion resistant High impact strength Stainless steel cable Flexible, 20 m immersible rugged whip 	<ul style="list-style-type: none"> UV resistant PC material Thick monopole/dipole radiating element Dipole array radiating element Printed, filar technology Flexible Stainless steel spring mount base Spring breakaway joint 	<ul style="list-style-type: none"> Horn in zamac PCB length that focalizes the radiation in order to reach very high gain performance
Applications	<ul style="list-style-type: none"> Tactical radio Communication Jamming 	<ul style="list-style-type: none"> Positioning 	<ul style="list-style-type: none"> Tactical radio Communication Jamming 	<ul style="list-style-type: none"> Communication Jamming Satcom Ground Vehicle (SUGV) 	<ul style="list-style-type: none"> Telecom backhaul for small cells Telecom fronthaul
Additional Options	<ul style="list-style-type: none"> With or without gooseneck Choice of connectors Molded or over-molded Size vs. power, and/or connector, matching network 	<ul style="list-style-type: none"> Passive or active Custom LNA gain With or without SAW filter (out of band rejection) With cable assemblies With RF gooseneck Custom markings 	<ul style="list-style-type: none"> Choice of connectors Molded or over-molded Custom markings Mating interface with radio Size vs. power, and/or connector, matching network 	<ul style="list-style-type: none"> Choice of connectors Finish (Matte Black, Nato Green, Desert Tan) Custom markings Size vs. power and/or connector Frequency bands Min. or no ground plane 	<ul style="list-style-type: none"> WR15 waveguide connector ETSI Class 2 for side lobe level Linear polarization IP67 ingress protection

APPLICATIONS

Military Handheld

- Typical power < 10 W
- Blade assembly with and without gooseneck
- Over-molded and molded whip
- 2 m and 20 m immersion

Military Manpack

- Typical power 20 W
- Blade assembly with or without gooseneck
- 2 m and 20 m immersion

Military Vehicular

- Manned and unmanned vehicle
- Typical power 50 W
- Breakaway joint

Industrial

- ISM, 3G, LTE and WiFi bands
- IP67 required for outdoor applications

Positioning


- GNSS satellite positioning as GPS/Glonass/Gallileo/Beidu for handheld devices

Telecom

- Telecom backhaul for small cells
- Telecom fronthaul

PRODUCT ORDERING

SERIES	APPLICATIONS							ELECTRICAL CHARACTERISTICS		PHYSICAL CHARACTERISTICS			
	Name	Connector	Military Handheld	Military Manpack	Military Vehicular	Industrial	Positioning	Telecom	Frequency (MHz / GHz)	Power	Construction	Length	Part Number
Flexible Blade	TNC		■						V/UHF 30-512 MHz	11-20 W	With Gooseneck	Large < 30 cm	R380000153
	N		■						ISM 2.4-2.5 GHz	1-10 W		Large < 30 cm	R380500234
	TNC		■						V/UHF 30-512 MHz	11-20 W	With Gooseneck	Large < 30 cm	R380000165
	TNC		■						V/UHF 30-512 MHz	11-20 W	-	Large < 30 cm	MD11-052
	TNC		■						V/UHF 30-512 MHz	11-20 W	-	Large < 30 cm	MD13-017
Optical Horn	WR15						■		V-BAND 60 GHz	1-10 W	32 dBi Array Antenna	Medium 10 cm-30 cm	R380840000
Stubby or Patch for GNSS	SMA					■	■		GPS L1	1-10 W	GNSS Passive Small Antenna	Short < 10 cm	R380300032
	SMA		■				■		GPS L1	0-1 W	L1 GPS Active 11.5 dB Antenna	Short < 10 cm	R380300013
	SMA		■				■		GPS L1	0-1 W	L1 GPS Active 20 dB Antenna	Short < 10 cm	R380300024
	SMA		■				■		GPS L1/GLONASS/GALLILEO	0-1 W	GNSS Passive Medium Antenna	Short < 10 cm	R380300035
	SMA		■				■		GPS L1/GLONASS/GALLILEO	0-1 W	GNSS Active Medium Antenna	Short < 10 cm	R380300036
	SMA		■				■		GPS L1/GLONASS/GALLILEO	0-1 W	GNSS Passive Small Antenna	Short < 10 cm	R380300037
	SMA		■				■		GPS L1/GLONASS/GALLILEO	0-1 W	GNSS Active Small Antenna	Short < 10 cm	R380300038
	SMA		■				■		GPS L1/GLONASS/GALLILEO	0-1 W	GNSS Active Small Antenna	Short < 10 cm	R380300038
Thick Monopole & Dipole	N					■			ISM 2.4-2.5 GHz	11-20 W	6 dBi Omnidirectional	Large > 30 cm	MD11-029
	N					■			ISM 5.1-5.9 GHz	11-20 W	6 dBi Omnidirectional	Medium 10 cm-30 cm	MD11-035
	N					■			ISM 4.8-5 GHz	11-20 W	6 dBi Omnidirectional	Medium 10 cm-30 cm	MD11-037
	N					■			ISM 900 MHz	1-10 W	0 dBi Omnidirectional	Medium 10 cm-30 cm	MD14-007
	SMA					■			UHF 470-654 MHz	1-10 W	-	Medium 10 cm-30 cm	R380100108
	SMA		■			■			ISM 2.4-2.5 GHz	1-10 W	2 dBi Omnidirectional	Short < 10 cm	R380500125
	SMA		■			■			ISM 2.4-2.5 GHz	1-10 W	2 dBi Omnidirectional	Short < 10 cm	R380500127
	SMA		■			■			ISM 2.4-2.5 GHz	1-10 W	2 dBi Omnidirectional	Short < 10 cm	R380500132
	SMA		■			■			ISM 2.4-2.5 GHz	1-10 W	3 dBi Omnidirectional	Short < 10 cm	R380500140
	N		■			■			ISM 2.4-2.5 GHz	1-10 W	Spring Loaded	Large > 30 cm	R380500232
	N		■			■			ISM 2.4-2.5/4.9-5.9 GHz	1-10 W	Spring Loaded	Medium 10 cm-30 cm	R380900200
	N			■					V/UHF 30-512 MHz	21-50 W	Spring Loaded	Large > 30 cm	R380990010
	N			■					V/UHF 30-512 MHz	21-50 W	Spring Loaded	Large > 30 cm	R380000800
	N					■			GSM/UMTS/LTE 700 MHz-2.7 GHz	1-10 W	2 dBi Omnidirectional	Medium 10 cm-30 cm	R380900341
SMA					■			ISM 2.4-2.5 GHz	1-10 W	-	Short < 10 cm	R380500151	
N					■			ISM 2.4-2.5/4.9-5.9 GHz	1-10 W	2 dBi Omnidirectional	Medium 10 cm-30 cm	R380900343	
N					■			MIL 2.4-6 GHz	> 50 W	Spring Loaded	Large > 30 cm	R380990020	
N					■			V/UHF 30-512 MHz	> 50 W	Spring Loaded	Large > 30 cm	R380990021	
Whip	TNC		■						V/UHF 30-512 MHz	1-10 W	Overmolded	Medium 10 cm-30 cm	R380000178
	TNC		■						V/UHF 30-512 MHz	11-20 W	Overmolded	Large > 30 cm	R380000169
	TNC		■						V/UHF 30-512 MHz	1-10 W	Overmolded	Large > 30 cm	MD10-003

An aerial night view of a city, likely Tokyo, with a network of white location pins connected by thin white lines. The city lights are visible in the background, and the sky is a deep blue. The pins are scattered across the city, with some larger than others. A semi-transparent blue box with a faint map pattern is overlaid on the left side of the image, containing two paragraphs of text.

Radiall Navigator™ is a tool designed to assist our partners and customers. Its consolidated format makes sharing information about Radiall products as easy as possible.

This Navigator serves as a supplemental guide to information available in our catalogs and on our website (www.radiall.com). We recognize that time is a very limited and valuable asset. We are confident that Radiall Navigator will help users understand our products, terminologies and references better.

SIMPLIFICATION is our INNOVATION

We advance the design and engineering process for innovators, ground-breakers and pioneers of technology. We reduce weight, improve durability and streamline installation to provide leading-edge connectors that drive product performance.

AREA OFFICES / LOCAL CONTACTS

EUROPE	ADDRESS	PHONE	FAX	EMAIL
FINLAND	Radiall Finland PO Box 202, 90101, Oulu	+358407522412		infofi@radiall.com
FRANCE	Radiall SA 25 Rue Madeleine Vionnet, 93300, Aubervilliers	+33149353535		info@radiall.com
GERMANY	Radiall GmbH Carl-Zeiss-Straße 10, 63322, Rödermark	+49607491070	+496074910710	infode@radiall.com
ITALY	Radiall Elettronica S.R.L. Via Zambelletti 19, 20021, Baranzate Milano	+39024885121	+390248843018	infoit@radiall.com
NETHERLANDS	Radiall Nederland BV Hogebrinkerweg 15b, 3871, KM Hoevelaken	+31332534009	+31332534512	infoln@radiall.com
SWEDEN	Radiall AB Sollentunavägen 63, 191 40 Sollentuna	+4684443410		infose@radiall.com
UNITED KINGDOM	Radiall Ltd. Profile West, 950 Great West Rd., Brentford, Middlesex TW8 9ES	+441895425000	+441895425010	infouk@radiall.com

ASIA

CHINA	Shanghai Radiall Electronics Co., Ltd. No.390, Yonghe Road, Shanghai, 200072	+862166523788	+862166521177	infozh@radiall.com
HONG KONG	Radiall Electronics (Asia) Ltd. Room A, 16/F., Ford Glory Plaza, 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong	+85229593833	+85229592636	infohk@radiall.com
INDIA	Radiall India Pvt. Ltd. 25D, Phase 2, Peenya Industrial Area, Bengaluru 560 058	+918028395271	+918028397228	infoin@radiall.com
JAPAN	Nihon Radiall K.K. Sawada Building 8F, Shibuya-ku, Tokyo 150-0011	+81364274455	+81364274456	infojp@radiall.com

AMERICAS

USA & CANADA	Radiall USA, Inc. 8950 South 52nd Street, Ste. 401 Tempe, AZ 85284	+14806829400	+14806829403	infousa@radiall.com
-------------------------	--	--------------	--------------	---------------------

GLOBAL PRESENCE

*Australia · Austria · Belgium · Brazil · Czech Republic · Denmark · Estonia · Greece · Hungary · Indonesia · Israel · Korea · Latvia · Lithuania
Malaysia · Norway · Philippines · Poland · Portugal · Russia · Singapore · South Africa · Spain · Switzerland · Taiwan · Thailand · Turkey · Vietnam*