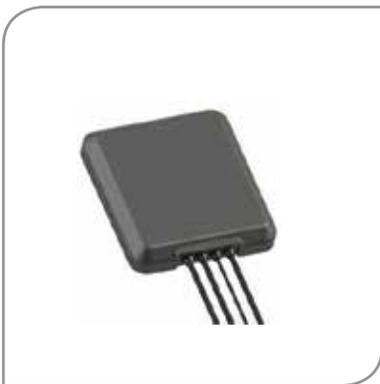


 **PulseLARSEN**
Antennas

For FirstNet



Band 14 Solutions



YOUR INTRODUCTION TO PULSELARSEN PUBLIC SAFETY FIRSTNET ANTENNAS.

Want to learn more? Visit our website at pulselarsenantennas.com

On March 30th, 2017 the First Responders Network Authority (FirstNet) announced a \$46 Billion deal with AT&T to build a Wireless Broadband Network for First Responders. In the words of FirstNet.

“FirstNet was created to be a force-multiplier for first responders – to give public safety 21st century communication tools to help save lives, solve crimes and keep our communities and emergency responders safe. To do that, FirstNet will build a new Band Class 14 network designed to be reliable, functional, safe and secure, and provide optimal levels of operational capability at all times. For the first time, public safety communications will be based on commercial standards. This will bring the benefits of lower costs, consumer-driven economies of scale and rapid evolution of advanced communication capabilities.”

The FirstNet network will support public safety applications and key mission-critical network services with the goal to be transformative to first responders and the public safety community.

Benefits of FirstNet:

- Improving Communications Through an Interoperable Network
- Connecting Responders in Rural America
- Enhancing Situational Awareness in Emergencies
- Giving Public Safety True Priority
- Offering Vital Capacity for Planned Events, Large Crowds
- Delivering Actionable Data via Innovative Apps, Devices
- Providing Reliability and Security When Disaster Strikes
- Ensuring Coordinated Response to Man-Made Disasters
- Driving Innovation in Life-Saving Public Safety Communications Technology
- The Network First Responders Need to Keep Communities Safe.“

Source: First Responders Network Authority (FirstNet)

WHAT IS BAND 14:

Band 14 is the frequency spectrum allocated by the FCC for use by FirstNet in the nationwide public safety wireless broadband network. Band 14 lies in the 700MHz range which is a relatively low frequency band compared to other wireless broadband

networks. As a result, it offers better propagation for improved building penetration and longer reach. AT&T as the developer of the FirstNet network, will give First Responders priority nationwide in Band 14.

Band	Downlink (MHz) Low Med High	Uplink (MHz) Low Med High	Duplex Spacing (MHz)
14	758 763 768	788 793 798	-30



Public Safety 700/800; 2G/3G/4G LTE; WiFi; DSRC - Low Profile							
Model Black	Model White	ICEFIN Model	Frequency (MHz)	Gain (dBi)	Mount	Size Hx DIA (in)	Power Rating (Watts) Black / White / ICEFIN
SLPT698/2170NMOHF	SLPT698/2170NMOHFW	ICEFINLNMOHF	LTE: 698-960 PCS: 1710-2170 ISM: 2400-2700	4.5 5.6 4	NMOHF	3 x 1.75	40 / 40 / 30
SLPT698/2170DMN	SLPT698/2170DMNW	ICEFINLDMN	LTE: 698-960 PCS: 1710-2170 ISM: 2400-2700	4.5 5.6 4	Direct (N Female)	3 x 1.75	40 / 40 / 35

PULSELARSEN MULTI-BAND ANTENNAS

Whether your need is for antennas for police, utility trucks, ambulances, agricultural or recreational vehicles, public transportation or remote monitoring and control PulseLarsen has your multi-band solution. For over 50 years we have produced vehicular/outdoor ruggedize antennas. Our expertise covers 3G/4G(LTE), WiFi, GPS(GNSS), ISM, and other Technologies.

For precise navigation our solutions cover all satellite navigation types including GPS, GLONASS, Beidou/ Compass, and Galileo. Plus we have products that combine navigation with data transmission for complete telematics requirements. Our navigation antennas are designed for use in trucking, commercial fleets, utility, public safety, search and rescue, GPS and mapping markets.

MULTI-BAND ANTENNA SUMMARY



		Panther	Jaguar	Armadillo	Razorback (Spring 2017)	FIN
		<ul style="list-style-type: none"> • Best Performance • Low Cost • Best Gain, Efficiency, VSWR, and Port-to-Port Isolation 	<ul style="list-style-type: none"> • Low profile • Good Performance • Various Install Methods 	<ul style="list-style-type: none"> • Low Profile • Good Performance • Tamper-proof steel stud 'Narrowest Package' 	<ul style="list-style-type: none"> • Best Performance • Narrow Profile, • Tamper-proof steel stud 	<ul style="list-style-type: none"> • Best Performance • Aesthetically pleasing
		No. of Ports	Baseline Configuration			
6	LTE - (2x) WiFi -Dual Band (3x) GPS -full GNSS (1x)	✓	✓	✓	✓	
5	LTE - (2x) WiFi -Dual Band (2x) GPS -full GNSS (1x)	✓	✓		✓	
4	LTE - (2x) WiFi -Dual Band (1x) GPS -full GNSS (1x)	✓	✓	✓	✓	
3	LTE - (2x) GPS -full GNSS (1x) or LTE (1x) WiFi-Dual Band (1x) GPS-full GNSS (1x)	✓	✓	✓	✓	✓
2	3G - or ISM - (1x) GPS -Full GNSS (1x) or LTE (1x) GPS-full GNSS (1x) or LTE (2x)			✓	✓	✓
Color Options		Black, White	Black	Black, White	Black	Black, White
Ideal Placement		Either: On Ground Plane; or On Non-Metal Surface	Either: On Non-Metal Surface; or On Ground Plane if base used.	On Ground Plane	Either: On Ground Plane ; or On Non-Metal Surface	On Ground Plane
Package Available Mounting		Direct Mount Stud (Magnetic Mount available)	Adhesive Mount (Magnetic Mount and Fixed Mount Adapters available)	Direct Mount Stud (Magnetic Mount versions available)	Direct Mount Stud (Magnetic Mount versions available)	Direct Mount Stud

On Ground Plane: Best if installed on metal vehicle roof, metal utility box, or other metal structure.
On Non-Metal: Best if installed on fiberglass, plastic, or other non-metallic surface.
Contact factory if any concerns about installation methods.



ADDITIONAL ANTENNA TYPES FOR FIRSTNET

Model	Application / Type	Frequency Band (MHz)	Size	Connection
NMQW700	1/4 Wave Mobile Whip	740 - 806	3" Tall (76 mm Tall)	NMO Mount
LP78NMO	Low Profile Puck	740 - 960	1.5" (H) x 4.5" (Dia.) (38 mm tall x 114 mm dia.)	NMO Mount
KGI768	Glass Mount Stealth	758 - 896	6.7 inch (170mm)	No Conn.
KG3E768UD	Glass Mount Ext.	758 - 896	13" Tall 14' RG-58/U	No Conn
W5067	Baton, Radome Omni	698-960, 1710-2170, 2400-2700	9.1" Tall (231 mm Tall)	N-Female
YA5740W	Directional Yagi	740 - 806	32.8 inch (833 mm)	N-Female
YA6740W	Directional Yagi	740 - 806	19.3 inch (490 mm)	N-Female
FB3740WA	Omni Base Station	740 - 806	16 " Tall (406 mm Tall)	N-Female
SB698SMA3	Stealth Blade Omni	698-960, 1710-2170, 2300-2700	4.2" long x 1" wide (107 mm long x 25.4 mm wide)	3 Foot RG-316; SMA
SB698SMA12	Stealth Blade Omni	698-960, 1710-2170, 2300-2700	4.2" long x 1" wide (107 mm long x 25.4 mm wide)	12 Foot RG-316; SMA



*Also see our full line of In-Building DAS and Embedded Antennas.

Note: Contact factory for additional configurations of LTE, WiFi, and GPS.
Contact factory for magnetic mount and adhesive mount configurations.



CONTACT US TODAY!

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