

# Multi-band Survivor™ AKIT-GPSS746MP-001

Innovative **Technology** for a **Connected** World



# **MULTI-BAND SURVIVOR™ (LTE, EVDO & GPS)**

The Laird Technologies Multi-band Survivor™ is a rugged, high-performance multi-band vehicular antenna that covers the LTE, EVDO and GPS frequencies. It is designed to withstand demanding environments and maintain superior RF performance. The antenna can be shipped and installed on a vehicle with the LTE whip detached, and the whip can be installed at a later time (if needed).

# LTE ELECTRICAL SPECIFICATIONS EVDO ELECTRICAL SPECIFICATIONS

AKIT-GPSS746MP-001		
LTE (BC12/BC14) Frequency Range	746 to 798 MHz	
Efficiency	70%	
Average Gain	0.5 dBi	
VSWR	≤ 2.0:1	
Nomimal Impedance	50 Ohm	
Polarization	Vertical	
Typical Power Handling	10 W	
Pattern Omnidirectional		

AKIT-GPSS746MP-001	1	
EVDO 800/1900 Frequency Range		821 to 896 MHz, 1850 to 1990 MHz
Efficiency	821-896 MHz	60%
	1850-1990 MHz	70%
Gain		3 dBi
VSWR		≤ 2:1
Nomimal Impedance		50 Ohm
Polarization		Vertical
Typical Power Handling		10 W
Pattern		Omnidirectional

# **GPS ELECTRICAL SPECIFICATIONS**

AKIT-GPSS746MP-001		
GPS Frequency		1575.42 MHz
Zenith ±80° Efficiency		11 dB
Gain		20 dB
VSWR		≤ 2:1
Nomimal Impedance		50 Ohm
Polarization		RHCP
Supply Voltage		3.3 Vdc
Noise Figure		2 dB
Out of Band Rejection	740 to 870 MHz	
	1850 to 1910 MHz	65 dB
	2400 to 2500 MHz	
Two tone IIP2 with -20 dBm @ 1575.42 MHz	CW signals at 2405 and 829.58 MHz (dBm)	-85 dBm
2nd Harmonic product caused by input of +10 dBm CW signal @ 787.71 MHz (dBm) @ 1575.42 MHz		-80 dBm

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# Multi-band Survivor™

# AKIT-GPSS746MP-001

# **MECHANICAL SPECIFICATIONS**

#### AKIT-GPSS746MP-001 Antenna Height 41.8 cm (16.5") Weight (Mass) 0.68 kg (1.5 lbs) **Base Dimensions** 15 cm x 9 cm x 8.5 cm (5.9" x 3.6" x 3.4") (LxWxH) Rated Wind Velocity 281 kph (175 mph) -40°C / +70°C Operating Temperature (-40°F / 158°F) IP Rating IP66 ASA / PC Housing Material Color Black

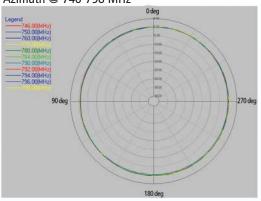
# **JUMPER SPECIFICATIONS**

Jumper (Part Number)	LTE Jumper (CASMAM366AGSMA-001)	EVDO Jumper (CATNCM366AHSMA-001)
Cable Type	200	240
Cable Diameter	5.08 mm (0.200")	6.1 mm (0.240")
Cable Length	366 cm (12 ft)	366 cm (12 ft)
Connector Type 1	SMA - Male	TNC - Male
Connector Type 2	SMA - Female	SMA - Male

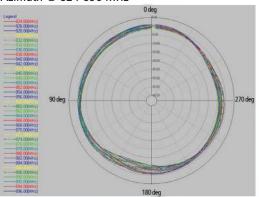
# **CABLE SPECIFICATIONS**

CABLE SPECIFICATIONS	LTE (BC13/BC14)	EVDO800/1900	GPS1575.42
Cable Type	RG-316	RG-316	RG-174
Cable Diameter	2.43 mm (0.096")	2.43 (0.096")	2.62 (0.104")
Cable Length (cm)	17 cm (6.7")	20 cm (7.9")	366 cm (144")
Connector Type	SMA-Male	SMA-Female	SMA-Male

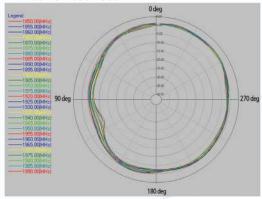
### Azimuth @ 746-798 MHz



# Azimuth @ 824-896 MHz



# Azimuth @ 1850-1990 MHz



# ANT-DS-MULTI-BAND-SURVIVOR 0212

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