



The Laird Connectivity vehicular three-port MIMO antenna covers the 698-960/1710-2700 MHz and 2300-2700/4900-5900 MHz frequency ranges with an added global navigational antenna. Configured with one 3G/4G port, one dual band Wi-Fi port and a third port configured with a GNSS navigational antenna.

Connector options include, but not limited to, SMA male connectors for 3G/4G LTE and GNSS ports with an RPSMA male connector for the Wi-Fi port. The housing incorporates a low-profile, rugged design that meets IP67, EN61373 Shock & Vibration and EN50155 Temperature and Humidity standards. The antenna also features high impact, UV-resistant polycarbonate plastic radome available in black or white.

APPLICATIONS

- FirstNet/Public Safety
- Passenger Fleet
- Commercial Vehicle Fleet
- Rail Transit

ELECTRICAL SPECIFICATIONS

Number of Ports	3G/4G LTE – 1		Wi-Fi – 1	
Operating Frequency (MHz)	698-960	1710-2700	2300-2700	4900-5900
Peak Gain – Average* (dBi)	2.0	4.1	4.2	4.9
Peak Gain – Max* (dBi)	2.6	4.7	4.9	6.0
VSWR- Average**	1.4	1.2	1.3	1.2
VSWR- Max**	2.0	2.0	2.0	2.0
Isolation** LTE to WIFI (dB)	-25	-25	-25	-38
Nominal Impedance (Ohms)	50			
Max Power - Ambient 25°C (W)	50			
Polarization	Vertical Linear			
Horizontal Plane 3 dB Beamwidth Port 1	Omnidirectional			

* Measured on 1 ft (30.48 cm) diameter ground plane

** Measured on 1 ft (30.48 cm) diameter ground plane and 17 ft (518 cm)

Antenna specification is subjected to change according to the ground plane size

MECHANICAL SPECIFICATIONS

Dimensions – diameter x height – mm (in.)	132 x 75 (5.20 x 2.9)
Weight – kg (lbs)	0.74 (1.63)
Cable Type	LMR195M
Mounting	P- Mount
Radome and Base Plate Material	PC, UL94 - V0 Rating, UV Stable

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature – °C (°F)	-30 to +70 (-22 to +158)
Storage Temperature – °C (°F)	-40 to +85 (-40 to +185)
Shock and Vibration Tests	EN61373 Compliant
Temperature and Humidity Tests	EN50155 Compliant
Ingress Protection Rating	IP67
Material Substance Compliance	RoHS

CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR LTE PORTS	CONNECTOR Wi-Fi PORTS	COLOR	NAVIGATION
VLT69273B11J-518A	5.18m (17ft)	SMA Male	RPSMA Male	Black	GNSS
VLT69273W11J-518A	5.18m (17ft)	SMA Male	RPSMA Male	White	GNSS

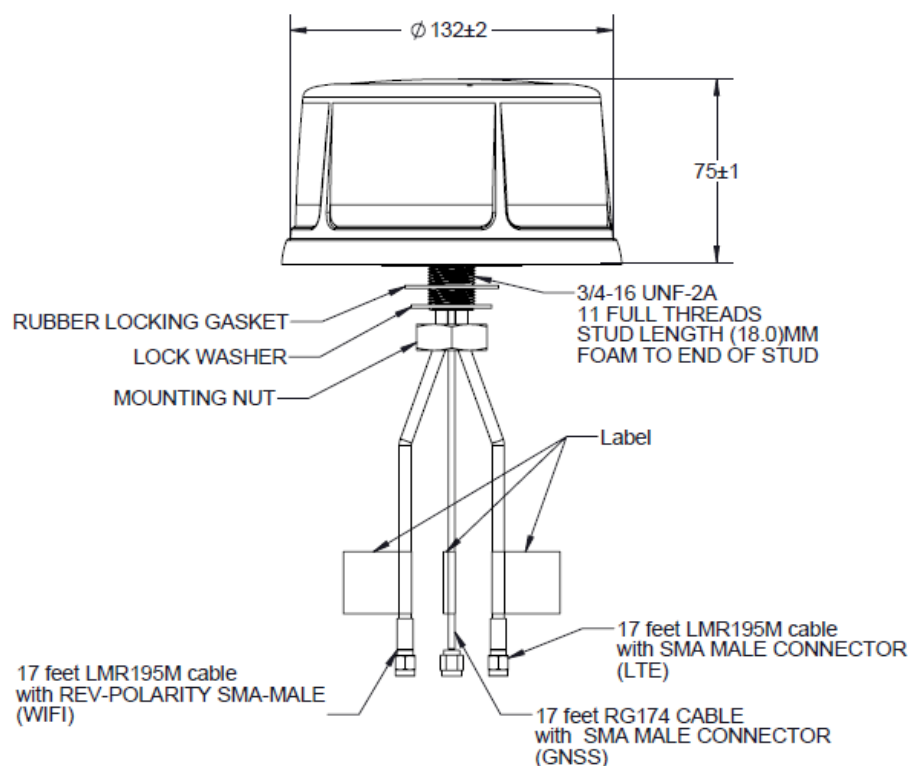
GNSS ANTENNA SPECIFICATIONS:

Model Number	VHP69273x22J		
Number of Ports	GNSS- 1		
Frequency Band (MHz)	Beidou	GPS	GLONASS
Frequency of Operation (MHz)	1561.098 ± 2.046	1.575.42 ± 1.023	1602.0 ± 5.0
Amplifier Gain (dB)	28 dB ± 3		
Nominal Impedance (Ohms)	50 Ω		
Output VSWR	< 2:1		
DC Voltage	2.5 - 7 Vdc		
Current Consumption, mA	8.5 ± 3 (at 3.0V)		
Input Max Power, dBm	-10		
Out of Band Rejection, dBc	> 80 (698- 960 MHz)	> 80 (1428- 2700 MHz)	> 70 (4900- 5800 MHz)
Working/Storage Temperature	-40°C - +85°C (-40°F - +185°F)		
Connector	SMA-Male		
Cable – Exposed Length	RG174-518.2 cm (17 ft.)		

PACKAGING INFORMATION

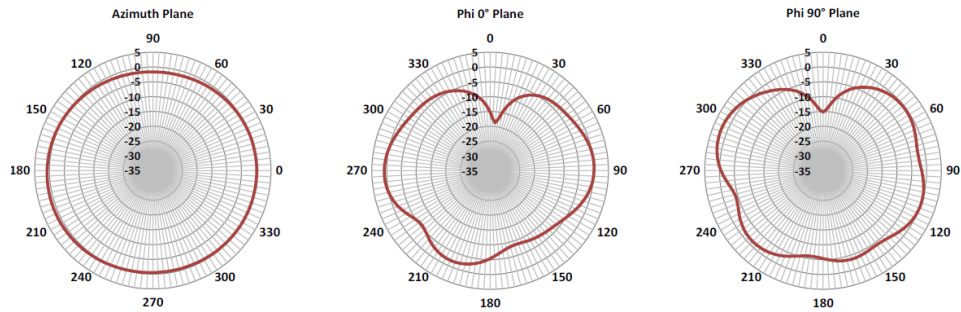
PACKAGE DIMENSIONS	CARTON	MASTER CARTON	AIR PALLET	OCEAN PALLET
Number of Antennas	4	8	192	240
Height- mm (in.)	305 (12.0)	305 (12.0)	1363 (53.66)	1668 (65.67)
Length- mm (in.)	525 (20.7)	525 (20.7)	1200 (47.24)	1200 (47.24)
Width- mm (in.)	132 (5.22)	265 (10.4)	800 (31.5)	800 (31.5)
Shipping Weight- kg (lb.)	5.0 (11)	10.1 (22.3)	255 (562)	316 (697)

MECHANICAL DRAWING

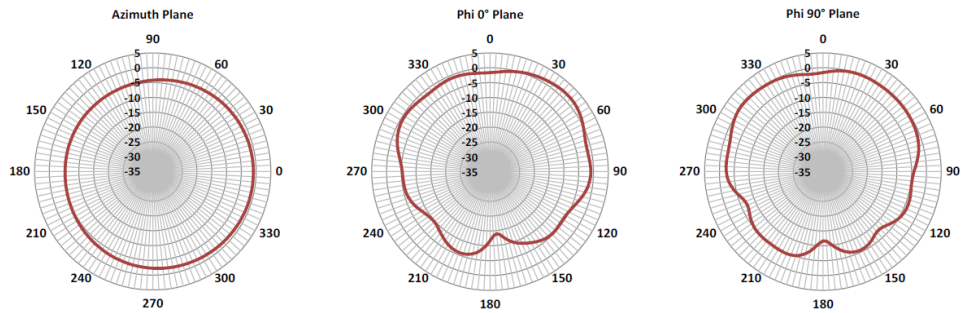


RADIATION PATTERNS- LTE/CELL PORTS

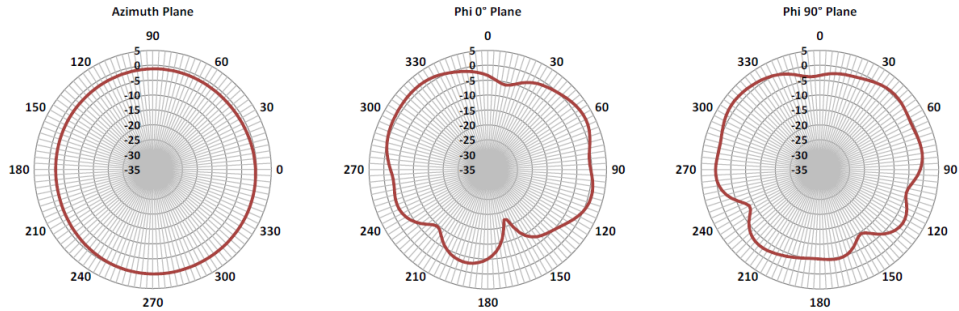
698 MHz



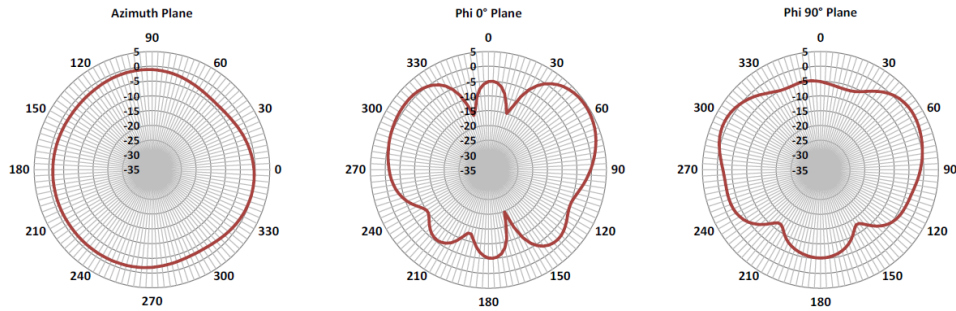
850 MHz



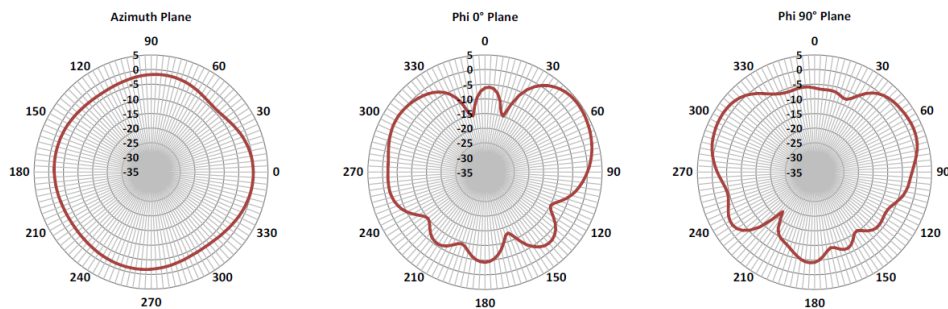
960 MHz



1710 MHz

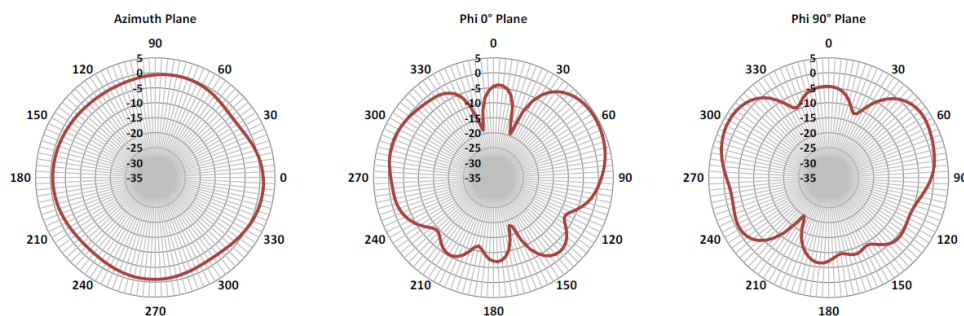


1880 MHz

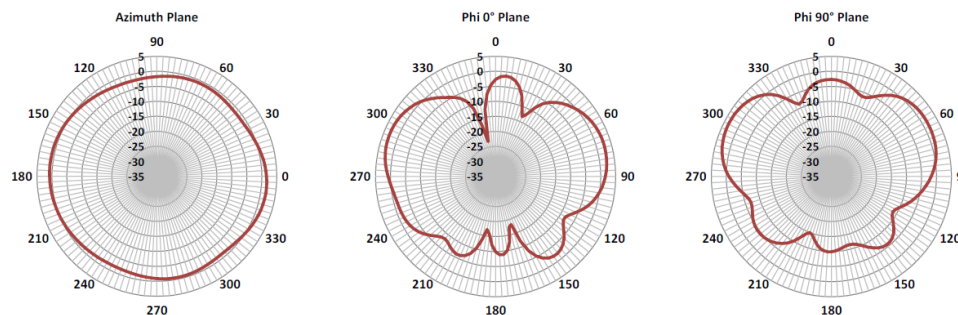


RADIATION PATTERNS- LTE/CELL PORTS

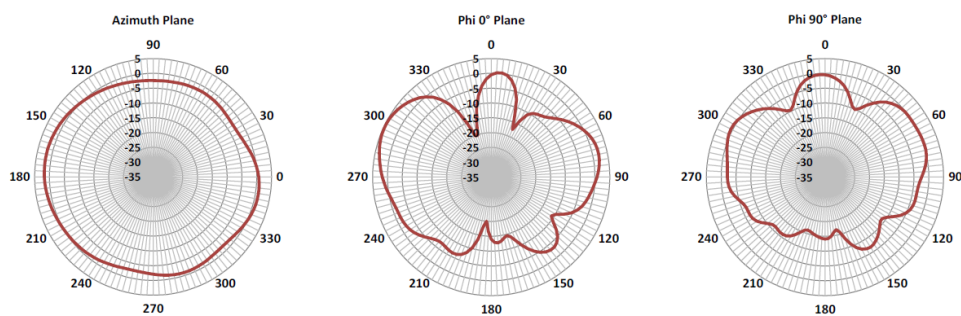
1930 MHz



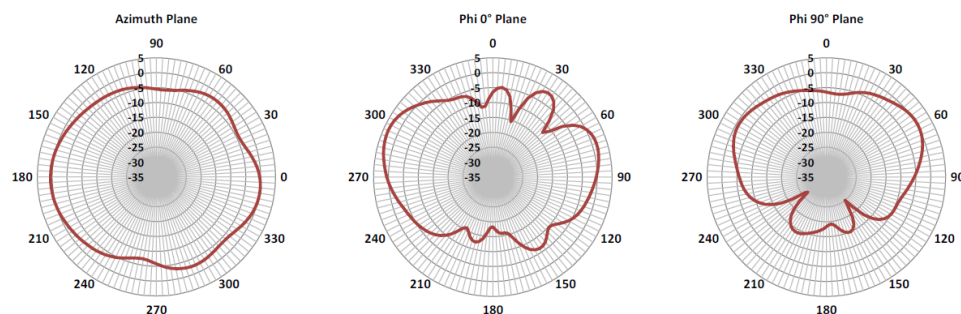
2170 MHz



2310 MHz

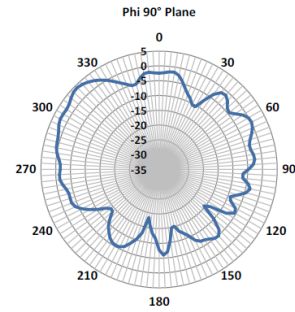
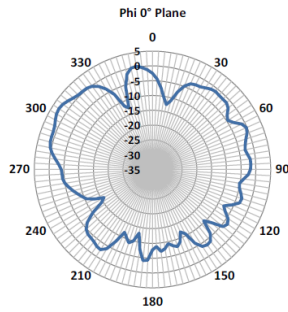
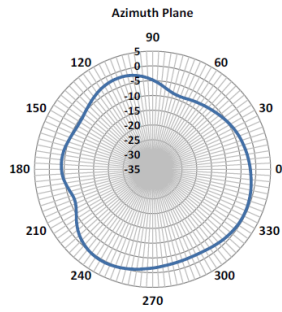


2700 MHz

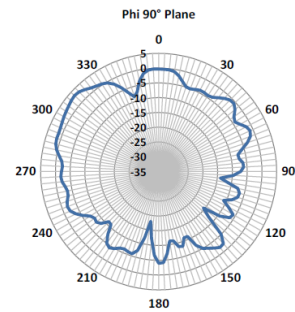
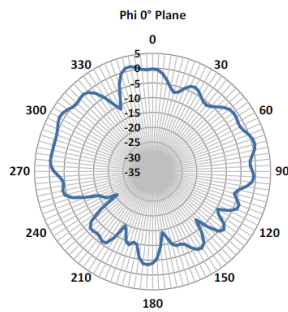
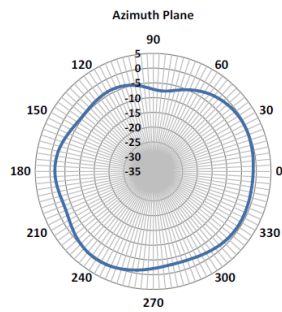


RADIATION PATTERNS- WI-FI PORTS

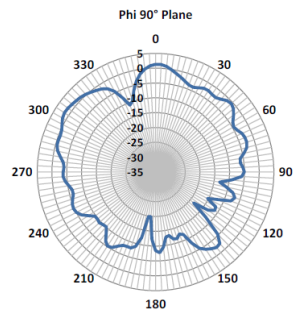
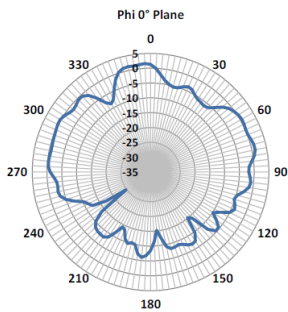
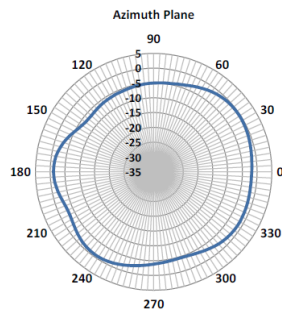
2400 MHz



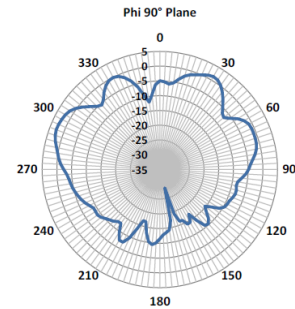
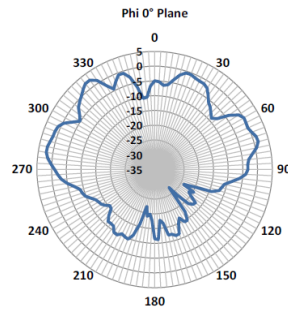
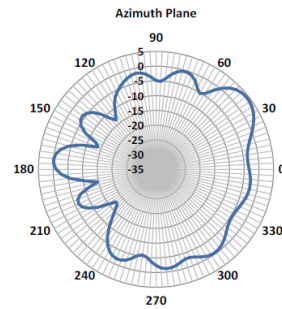
2460 MHz



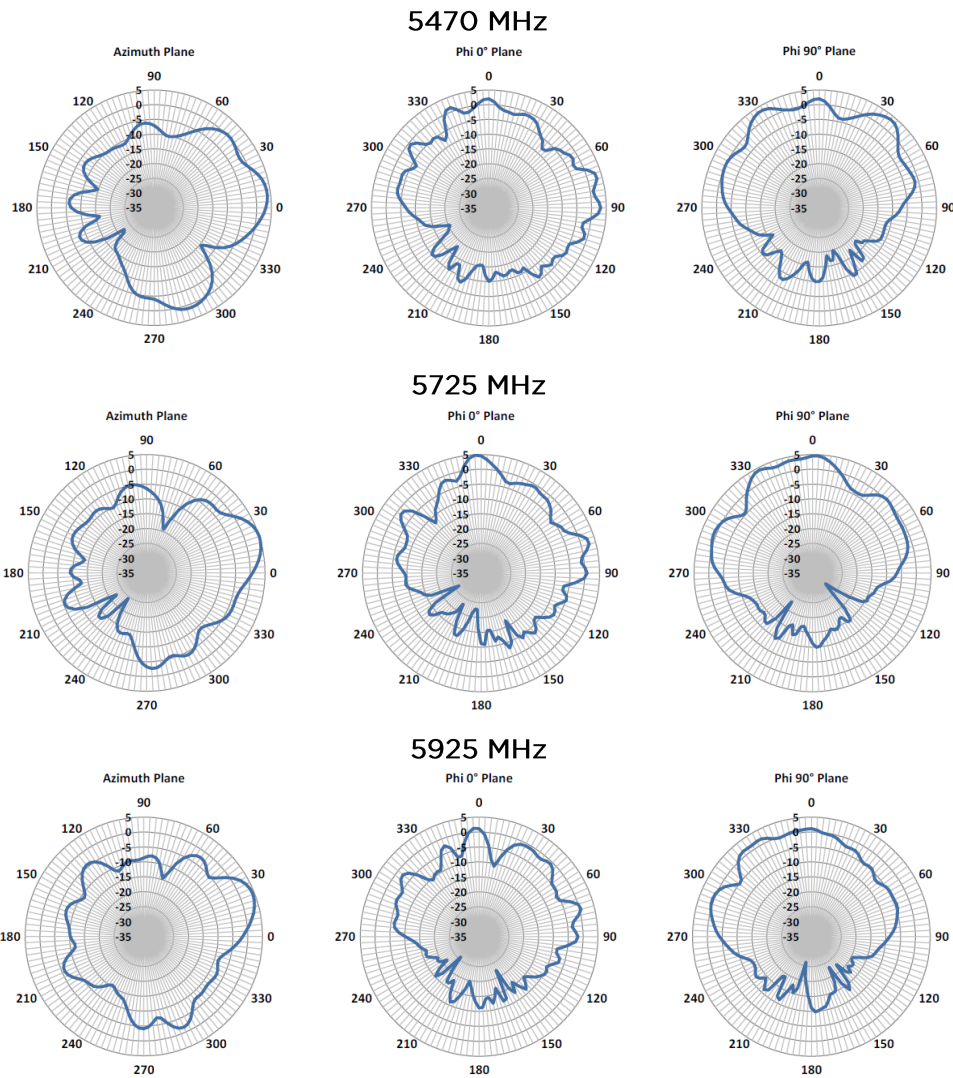
2500 MHz



4900 MHz



RADIATION PATTERNS- WI-FI PORTS



sales@lairdconnect.com
support@lairdconnect.com
www.lairdconnect.com

Laird Connectivity warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird Connectivity will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird Connectivity product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

Any information furnished by Laird Connectivity and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Connectivity materials rests with the end user, since Laird Connectivity and its agents cannot be aware of all potential uses. Laird Connectivity makes no warranties as to the fitness, merchantability or suitability of any Laird Connectivity materials or products for any specific or general uses. Laird Connectivity shall not be liable for incidental or consequential damages of any kind. All Laird Connectivity products are sold pursuant to the Laird Connectivity Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request.

© Copyright 2020 Laird Connectivity All Rights Reserved. Laird Connectivity, the Laird Connectivity logo, and other marks are trademarks or registered trademarks of Laird Connectivity or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Connectivity or any third party intellectual property rights.

