

VEHICULAR 4-PORT MIMO ANTENNA

VLQ69273X22N

698-960 / 1710-2700 / 2300-2700 / 4900-5900 MHZ

The Laird vehicular 4-port MIMO antenna covers the 698-960 / 1710-2700 MHz, 2300-2700 / 4900-5900 MHz. The VLQ69273x22N is configured with 4-port, dual-band elements. Connector options include SMA male connectors for 3G/4G LTE with RSMA male connectors for the WiFi port. The housing incorporates a low-profile, rugged design that meets IP67 standards. The antenna also features high impact, UV-resistant polycarbonate plastic available in black or white.

SPECIFICATIONS

PARAMETER	PERFORMANCE			
Model Number	VLQ69273B22N-518A (Black)		VLQ69273W22N-518A (White)	
No. of Ports	4 (2-ports 3G/4G LTE, 2-ports WiFi)			
	3G/4G (LTE) Ports		WiFi Ports	
Frequency Bands (MHz)	698-960 MHz	1710-2700 MHz	2300-2700 MHz	4900-5900 MHz
Peak Gain * dBi	3.2	4.5	5.5	6.3
Max Gain +/- 30o above horizon	N/A	N/A	N/A	4.8
VSWR* Typical	< 1.8:1	< 1.9:1	< 2.0:1	< 1.6:1
VSWR* Max	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1
Typical Port-to-Port Isolation*	698-960	1710-2700	2300-2700	4900-5900
LTE1-to-LTE2	> 14 dB	> 20 DB	> 23DB	N/A
LTE1-to-WiFi	> 23 DB	> 20 DB	> 20 DB	> 40 DB
LTE2-to-WiFi	> 23 DB	> 20 DB	> 20 DB	> 38 DB
LTE1-to-LTE2	> 25 DB	> 19 DB	> 20 DB	> 36 DB
LTE1-to-WiFi	> 23 DB	> 20 DB	> 21 DB	> 39 DB
LTE2-to-WiFi	N/A	N/A	> 20 DB	> 26 DB

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

PARAMETER	PERFORMANCE
Nominal Impedance	50 Ω
Polarization	Vertical Linear
Azimuth Beam Width	Omnidirectional
Input Power, Max	50 Watt (ambient temp. of 25°C / 77°F)
Operating Temperature	-30°C - +70°C (-22°F to +158°F)
Dimensions (dia. x hgt)	132 mm x 75 mm (5.2” x 2.9”)
Weight	Approximately 1.04 kg (2.29 lbs)
Connector	SMA-Male (3G/4G LTE port) RSMA-Male (WiFi port)
Cable (exposed length)	LMR®-195 or equivalent- 518.2 cm (17 ft)
Radome / Baseplate Material	PC, UL94 - V0 Rating, UV Stable
Material Compliance	ROHS compliant
IP Dust & Water Ingress Rating	IP67

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

PART NUMBER	
VLQ69273B22N-518A	2-Ports 4G/LTE: SMA Male; 2 Ports WiFi:RSMA Male(Black)
VLQ69273W22N-518A	2-Ports 4G/LTE: SMA Male; 2 Ports WiFi:RSMA Male(White)

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11/21 Original