# 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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| | |
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