



Semtech Antenna – 5-in-1 Dual Sharkfin for XR80 and XR90

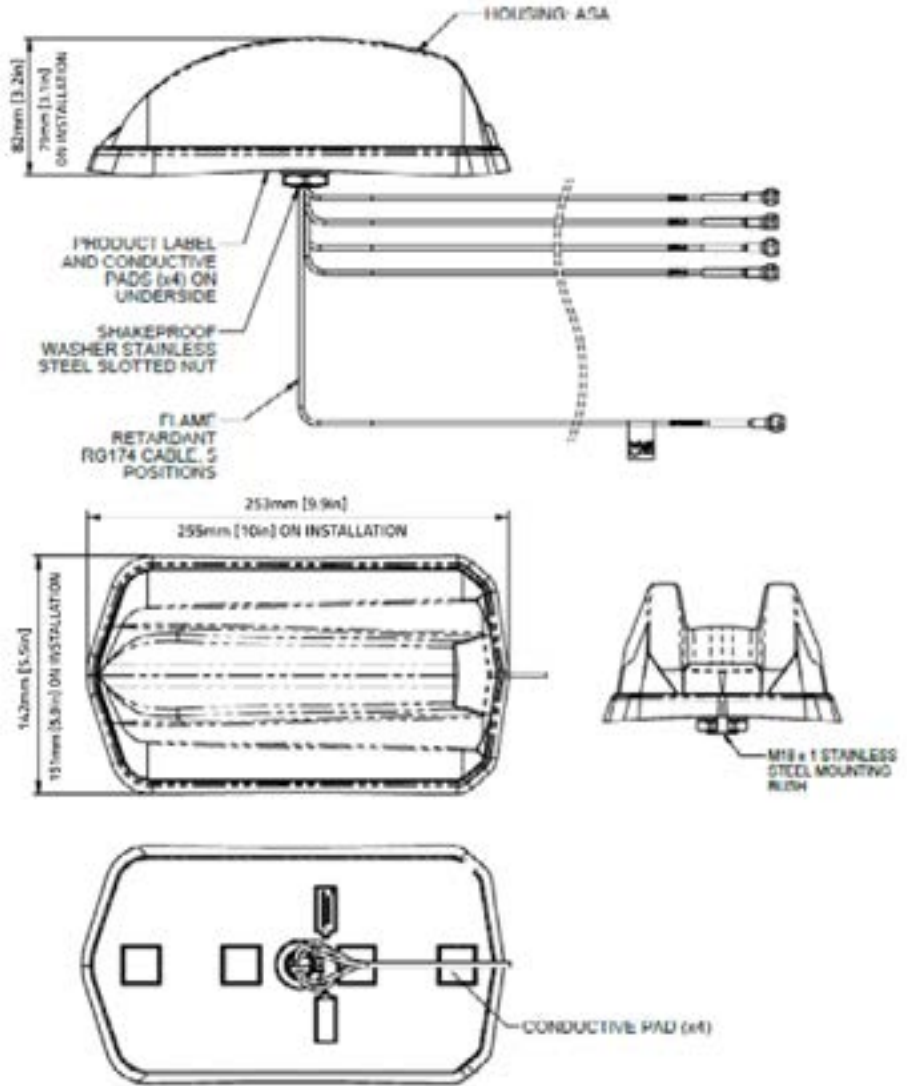
The 5-in-1 Dual Sharkfin is a specialized antenna solution engineered and certified for AirLink® XR80 mobility applications.

The antenna has a sleek sharkfin-style housing featuring a 4x4 MIMO for 4G/5G (617-6000MHz) and GNSS with an integrated gain 26dB LNA for optimized performance.

| | | Specification | |
|--------------------------|----------------|---------------------------------|--------|
| PART NO. | | 6001446 (Black)/6001524 (White) | |
| ELECTRICAL DATA | | | |
| Frequency Range | 4G/5G Elements | 617-960MHz / 1427-6000MHz | |
| Peak gain: Isotropic* | 4G/5G Elements | 617-960MHz | 4.2dBi |
| | | 1427-6000MHz | 7.1dBi |
| Isolation* | 4G/5G Elements | 617-960MHz | ≥7dB |
| | | 1427-6000MHz | ≥ 16dB |
| Typical Efficiency | 4G/5G Elements | 617-960MHz | 61% |
| | | 1427-6000MHz | 71% |
| Correlation Co-efficient | 4G/5G Elements | <0.25 | |
| Pattern | | Omni-directional | |
| Impedance | | 50Ω | |

*Simulated off a groundplane and does not include cable attenuation

| | | Specification |
|------------------------------|-------------|--|
| GPS/GNSS DATA | | |
| Frequency Range | | 1562-1612MHz |
| Gain: LNA | | 26dB |
| Out of Band Rejection | | > 35dB |
| Rejection at 787MHz | | > 50dB |
| Typical Noise Figure | | -2.7dB |
| Operating Voltage | | 3-5V DC |
| Typical Current | | 17mA |
| MECHANICAL DATA | | |
| Dimensions | Height | 82mm (3.2") |
| | Length | 253mm (9.96") |
| | Width | 142mm (5.56") |
| Operating Temp | | -40° / +80°C (-40° / +176°F) |
| Colour | | Black/White |
| Ingress Protection | | IP69K |
| MOUNTING DATA | | |
| Mounting Type | | Bolt Mount |
| Mounting Hole | | 19mm (3/4") |
| EXTENSION CABLE DATA | | |
| Cellular Cables | Type | CS32 (UN ECE R 118 Compliant) |
| | Length | 4m (13.12") |
| | Termination | FAKRA D (Purple) |
| GPS Cable | Type | CS29 (UN ECE R 118 Compliant) |
| | Length | 4m (13.12") |
| | Termination | FAKRA C (Blue) |
| ACCESSORIES | | |
| In The Box | | Dual sharkfin antenna with pigtails, extension cables, foam pad, mounting bolt, centre sealing pad |



About Semtech

Semtech Corporation (Nasdaq: SMTC) is a high-performance semiconductor, IoT systems and cloud connectivity service provider dedicated to delivering high-quality technology solutions that enable a smarter, more connected and sustainable planet. Our global teams are committed to empowering solution architects and application developers to develop breakthrough products for the infrastructure, industrial and consumer markets.

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