# QuShell 450

## QuShell 450 is a high-performance communication antenna designed for professional vehicles

**QuShell 450** is a high-performance communication antenna designed for professional vehicles, including police cars, while also providing reliable connectivity for fixed installations.
It supports **5G/4G (617-2500 MHz)** with 3dBi gain and **TETRA 450 MHz** band with 1dBi gain, widely used by emergency services for mission-critical communications. An **optional GPS/GNSS** module can be added for accurate tracking and navigation.
The rugged, low-profile housing is built to withstand wind and harsh weather conditions, ensuring dependable performance in all environments.
Standard cable length is 50cm. For other variants please contact your local reseller or account manager.
Optional roof mounting is included.






# ANTENNA SPECIFICATION

| | |
|---|---|
| FREQUENCY | 450 – 470 MHz<br>617 – 803 MHz<br>2000 – 2500 MHz |
| BANDS | B12, B13, B14, B17, B28, B29, B30, B31, B34, B40, B44, B53, B67, B68, B71, B72, B73, B85, B103, n12, n13, n14, n28, n29, n30, n34, n40, n53, n67, n71, n83, n85, n95, n97 |
| GAIN | 450 – 470 MHz : 1 dBi<br>617 – 803 MHz : 2 dBi<br>2000 – 2500 MHz : 3.5 dBi |
| VSWR | <1.50, max <2.50 |
| BEAMWIDTH | 360°/35° ±5° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |

# MECHANICAL SPECIFICATION

| | |
|---|---|
| MATERIAL | ASA |
| OUTER DIMENSIONS | 160 x 160 x 90 mm<br>6.3 x 6.3 x 3.54 inch |
| CONNECTOR | 5x SMA |
| WEIGHT | 1.5 kg |
| OPERATING TEMPERATURE | -40°C to 80°C<br>-40°F to 176°F |
| CABLE TYPE | RG174 |


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# MOUNTING KIT

| | |
|---|---|
| MATERIAL | Galvanized steel |
| WEIGHT | 0.4kg |
| MOUNTING PLACE | Wall or mast |
| MAST DIAMETER | 25-66 mm<br>0.98-2.60 inch |

# COMPATIBLE ROUTERS

## VARIANT: ASL4450G

| | |
|---|---|
| TELTONIKA | CALYX, RUTC42, RUTC50, RUTC54, RUTM30, RUTM31, RUTM51, RUTM54, RUTM55, RUTM56, RUTM59, RUTX12, RUTX14, RUTX50, TRB500, TRB501 |
| ROBUSTEL | EG5120, EG5200, R2000, R2120 5G, R5010, R5020, R5020 Lite, R5030 |
| CISCO | CG418-E, CG522-E |
| COMSET | CM550W, CM580W, CM685VX, CM770W-6, CM950W |
| CUDY | P5 |
| DIGI | EX50, IX25, IX40, TX54 LTE-Advanced, TX64 |
| ERICSSON (CRADLEPOINT) | E300, E3000, IBR1700, R1900, R2400, R980, W1850, W4005 |
| FORTINET | FEX-311F, FEX-311F |
| FOUR-FAITH | 5G Industrial CPE F-NR200, 5G Industrial Router F-NR100, 5G SIM WiFi Router F-NR120, 5G Smart Light Pole Gateway F-G300, 5G WiFi Router with SIM Card Slot F-NR130, Smart Light Pole Gateway F-G310 |

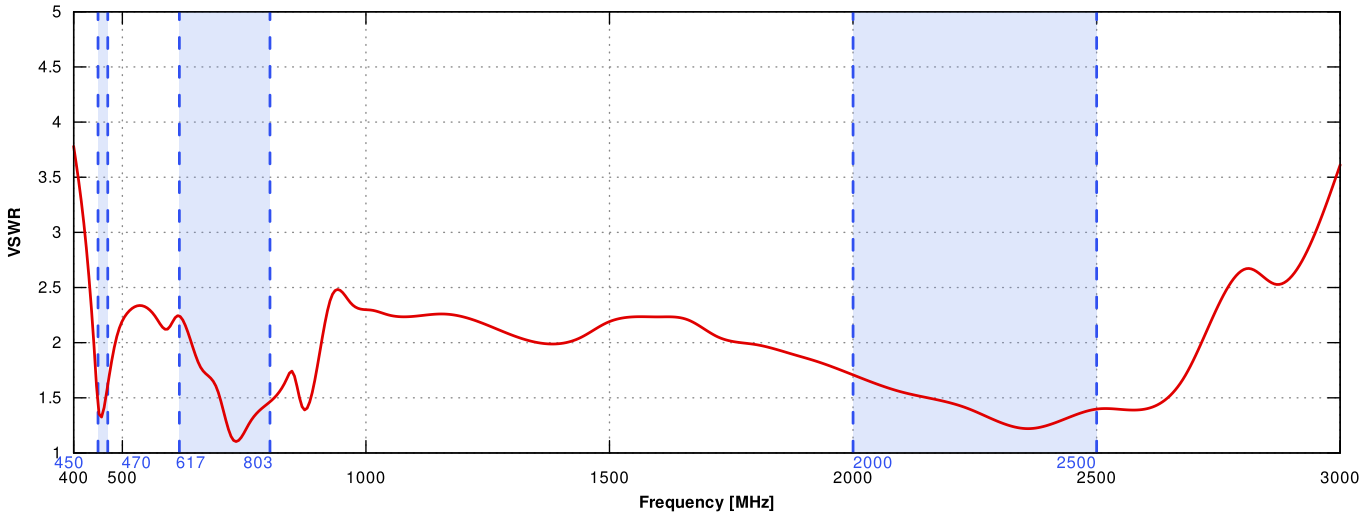

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| | |
|---|---|
| **MILESIGHT** | UF31, UR75 |
| **PEPLINK** | Balance 310 5G, Balance 310 fiber 5G, BR1 Mini 5G, BR1 Pro (CAT-20), BR1 Pro CAT-20, BR2 PRO, MAX BR1 Pro 5G, MAX HD2, MAX HD2 Mini, MAX Transit, MAX Transit Duo Pro, UBR Plus |
| **PERLE** | IRG7440 |
| **PROROUTE** | H685 WRT M2M 5G Router, H900 5G Router |
| **ROBUSTEL** | EG5120, EG5200, R2000, R2120 5G, R5010, R5020, R5020 Lite, R5030 |
| **SEMTECH (SIERRA WIRELESS)** | AirLink MG90 5G, AirLink XR60 |
| **SIEMENS** | 6GK5853-2EA00-2DA1 |
| **TELTONIKA** | CALYX, RUTC42, RUTC50, RUTC54, RUTM30, RUTM31, RUTM51, RUTM54, RUTM55, RUTM56, RUTM59, RUTX12, RUTX14, RUTX50, TRB500, TRB501 |
| **WAVETEL** | W4600-NR 5G, W4A00 5G, WNR320 5G, WNR340 5G |
| **WLINK** | G230, G530, G530 |
| **ZYXEL** | Nebula FWA510 |
| **OTHER** | 4 * SMA |

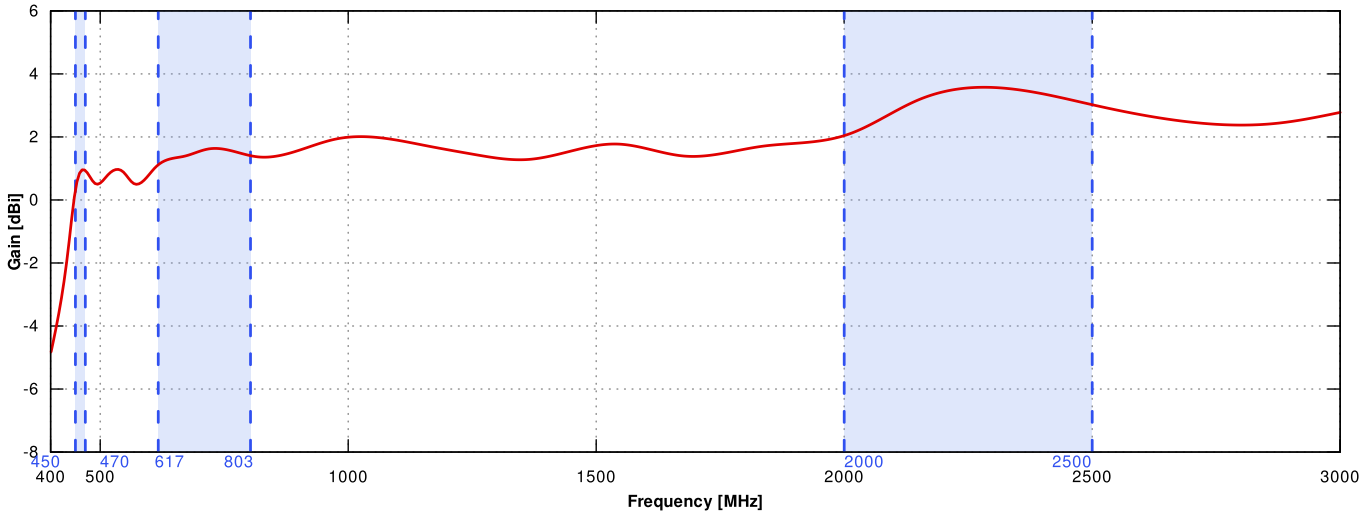

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# PLOTS

## VSWR




## GAIN

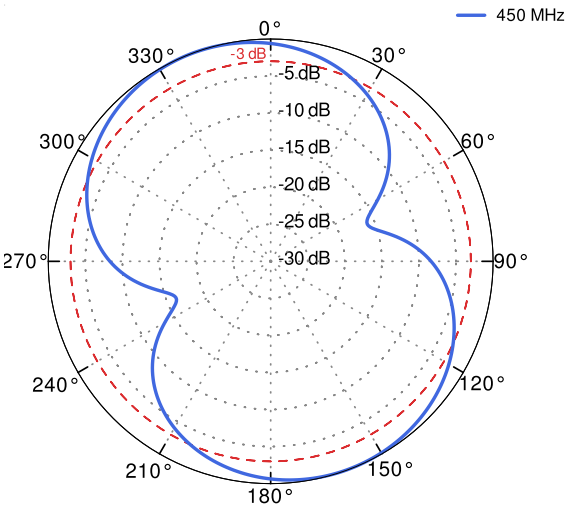




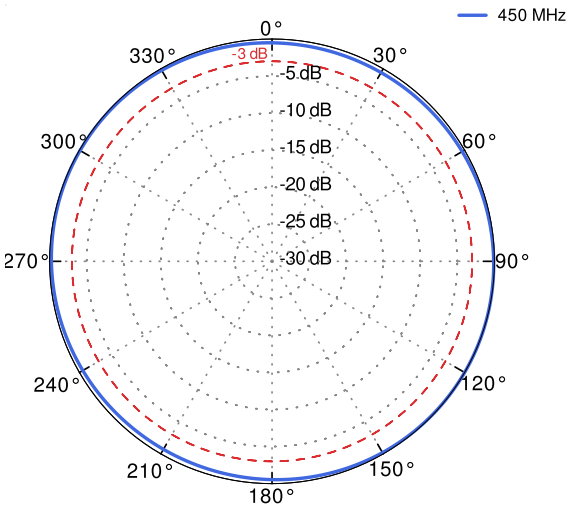
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## 450MHz

ELEVATION

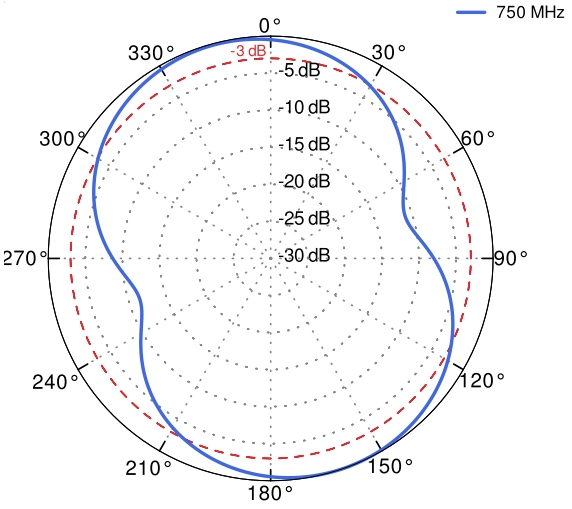



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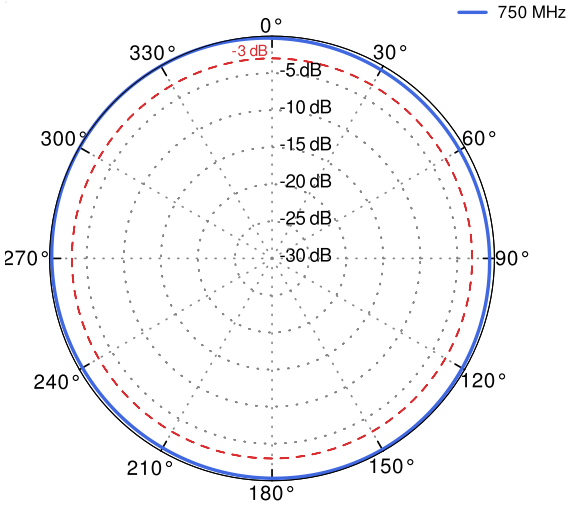



## 750MHz

ELEVATION




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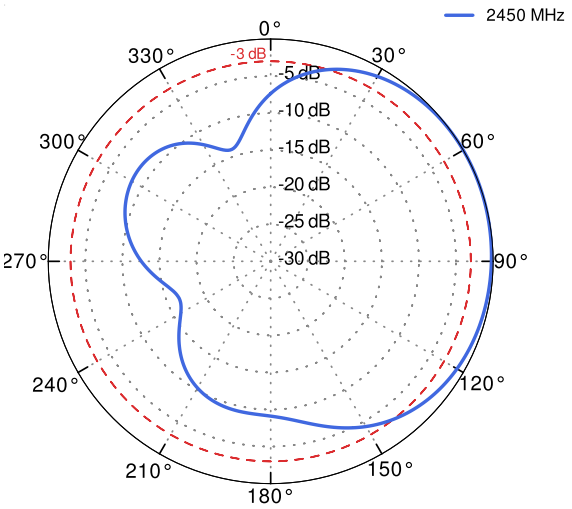




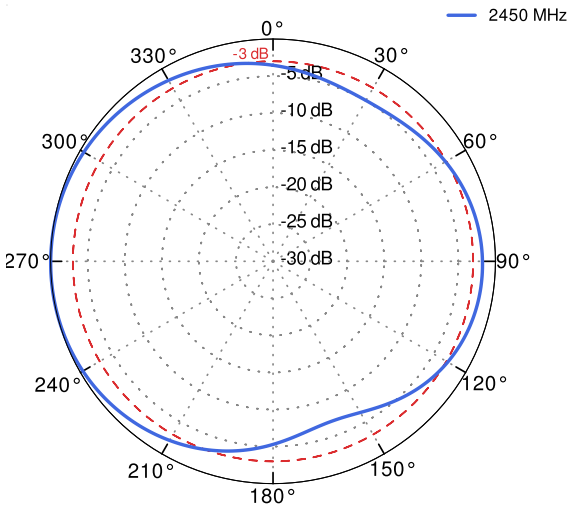
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## 2450MHz

ELEVATION




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