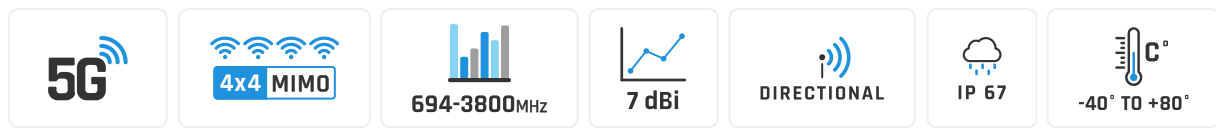


QuPanel 5G/LTE MIMO 4x4 Nf

Directional High Power multiband 5G/LTE MIMO 4x4 antenna

QuPanel 5G/LTE directional MIMO 4x4 high gain antenna is predicted for 5G and 4G LTE mainly, but is compatible with 3G and 2G as well. The antenna improves the signal in rural/suburban and locations where the mobile signal is weak. That antenna is predicted to be installed on the buildings (on the pole or on the wall). Due to very wide working frequency range, the antenna is universal client for 5G bands n77, n78 and LTE bands like LTE700 / 800 / 1800 / 1900 / 2100 / 2300 / 2600 / 3400 / 3800. It's compatible with Teltonika and other MIMO 4x4 5G / LTE / 3G / 2G modems and routers.



 OUTDOOR ANTENNA WORKS IN ANY WEATHER CONDITIONS, IP67

 MOUNTING SYSTEM WITH TWO PLANES, 60 DEGREES REGULATION

 FOUR NF CONNECTORS

 7.5DBI GAIN

 70° BEAMWIDTH

 MADE IN EUROPE



5G / LTE ANTENNA SPECIFICATION

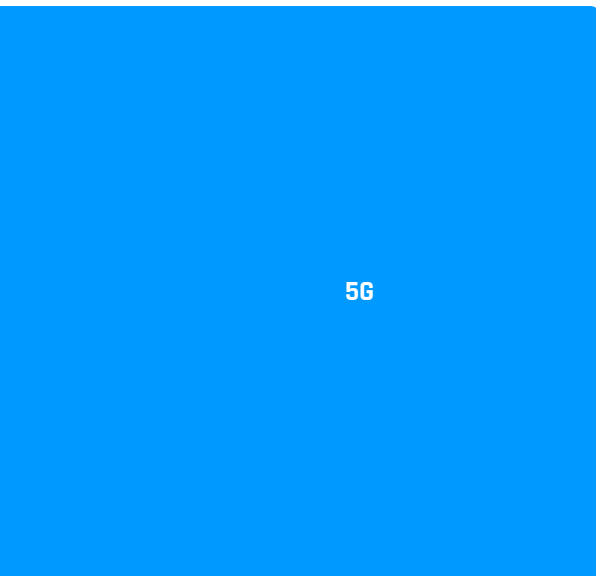
| | |
|----------------------------|---|
| FREQUENCY | 694 - 960 MHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz 3.3 - 3.8 GHz |
| GAIN | 694 - 960 MHz : 7 dBi 1.7 - 2.2 GHz : 7 dBi 2.2 - 2.7 GHz : 7.5 dBi 3.3 - 3.8 GHz : 5.5 dBi |
| SUPPORTED LTE BANDS | 1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 48, 49, 52, 53, 65, 66, 67, 68, 69, 85, 103, 106 |
| SUPPORTED 5G BANDS | n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n48, n53, n65, n66, n67, n78, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256 |
| VSWR | <1.70, max <2.00 |
| BEAMWIDTH | 70°/70° ±15° |
| POLARIZATION | Dual polarized X-Pol |
| IMPEDANCE | 50 Ω |
| FRONT-TO-BACK | 694 - 960 MHz : >10 dB 1.7 - 2.2 GHz : >12 dB 2.2 - 2.7 GHz : >14 dB 3.3 - 3.8 GHz : >17 dB |

MECHANICAL SPECIFICATION

| | |
|------------------------------|--|
| MATERIALS | ABS, aluminum, PTFE, Fiberglass |
| CONNECTOR TYPE | 4x Nf |
| INGRESS PROTECTION | IP67 |
| DIMENSIONS | 392 x 392 x 99 mm 15.43 x 15.43 x 3.90 inch |
| WEIGHT | 3.7 kg 8.16 lbs |
| OPERATING TEMPERATURE | From -40°C to 80°C From -40°F to 176°F |
| MAST DIAMETER | 25-66mm 0.98-2.60 inch |

FREQUENCY BANDS

| | | | | | | | | | |
|-----------------|----|----|----|-----|-----|----|----|---------|----------|
| LTE / 4G | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 694 MHz | 3800 MHz |
| | 9 | 10 | 12 | 13 | 14 | 17 | 18 | | |
| | 19 | 20 | 22 | 25 | 26 | 27 | 28 | | |
| | 29 | 30 | 33 | 34 | 35 | 36 | 37 | | |
| | 38 | 39 | 40 | 41 | 42 | 43 | 44 | | |
| | 48 | 49 | 52 | 53 | 65 | 66 | 67 | | |
| | 68 | 69 | 85 | 103 | 106 | | | | |



| | | | | | | | | |
|------------|-----|-----|-----|-----|------|------|------|-------------|
| 694 MHz | n1 | n2 | n3 | n5 | n7 | n8 | n12 | 3800 MHz |
| | n13 | n14 | n18 | n20 | n25 | n26 | n28 | |
| | n29 | n30 | n34 | n38 | n39 | n40 | n41 | |
| | n48 | n53 | n65 | n66 | n67 | n78 | n80 | |
| | n81 | n82 | n83 | n84 | n85 | n86 | n89 | |
| | n90 | n95 | n97 | n98 | n100 | n101 | n256 | |

COMPATIBLE ROUTERS

VARIANT: AP5G4-N

| | |
|-------------------------------|--|
| TELTONIKA | RUTC42, RUTC50, RUTM30, RUTM31, RUTM51, RUTM54, RUTM55, RUTM56, RUTM59, RUTX12, RUTX14, RUTX50, TRB500, TRB501 |
| ROBUSTEL | EG5120, EG5200, R2000, R5010, R5020, R5020 Lite |
| CISCO | CG418-E, CG522-E, MG41E, MG51E, MG52E |
| COMSET | CM550W, CM580W, CM685VX, CM770W-6, CM950W |
| CUDY | P5 |
| DIGI | EX50, IX40, TX54 LTE-Advanced, TX64 |
| EE 5G (5GEE) | Smart 5G Hub |
| ERICSSON (CRADLEPOINT) | E300, E3000, IBR1700, R1900, R2400, R980, W1850, W2005, W4005 |
| FIBOCOM | FM150-AE, FM150-NA, FM160-EAU, FM160-JK, FM160-NA, FM160-PN, FM190-GL, FM190W-GL, NL952-EAU, NL952-NA |
| 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 |
| 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 |
| QUECTEL | 5G RM500Q-AE, 5G RM500Q-GL, 5G RM502Q-GL, 5G RM505Q-AE, 5G RM510Q-GL, 5G RM520N-EU, 5G RM520N-GL, 5G RM521F-GL, 5G RM530N-GL, LTE-A EM160R-GL |
| ROBUSTEL | EG5120, EG5200, R2000, R5010, R5020, R5020 Lite |
| SEMTECH (SIERRA WIRELESS) | AirLink MG90 5G, AirLink XR60, EM9190, EM9191, EM9291, EM9293 |
| SIEMENS | 6GK5853-2EA00-2DA1, 6GK5856-2EA00-3AA1, 6GK5856-2EA00-3DA1 |
| SIMCOM | A8200E, SIM8202X-M2, SIM8260G-M2, SIM8262X-M2 Series, SIM8380G-M2 |
| TELIT CINTERION | FN980/FN980m, FN990A40/A28, FN990B34/B40, LM960A18 Series, MV31, MV32 |
| TELTONIKA | RUTC42, RUTC50, 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 |
| ZTE | ZM9020 |

ZYXEL

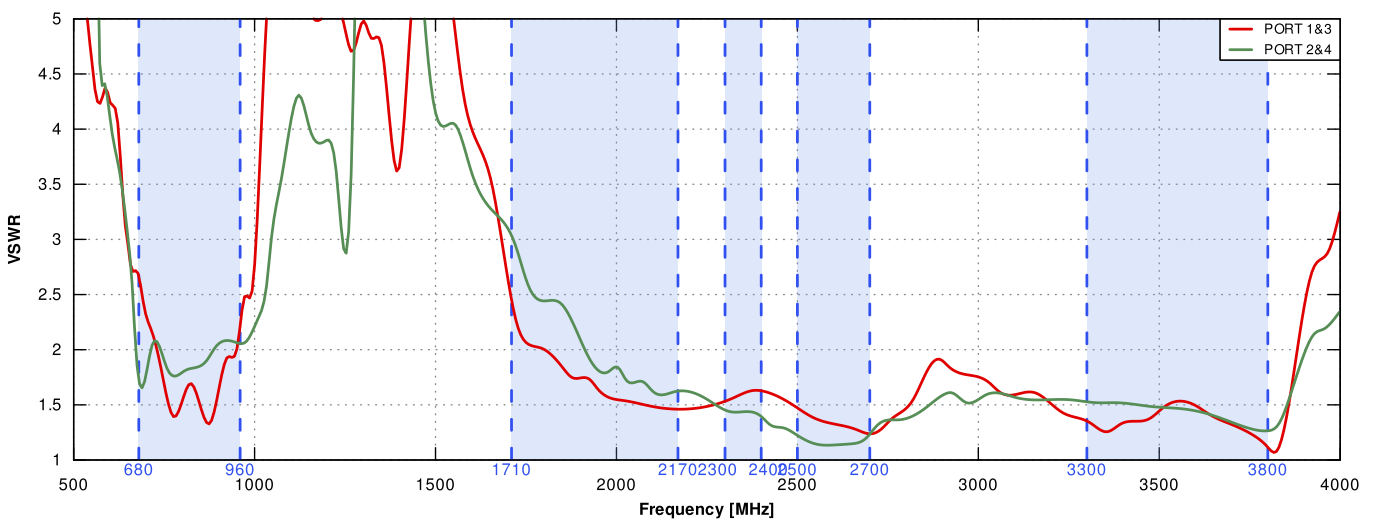
Nebula FWA510, NR5103

OTHER

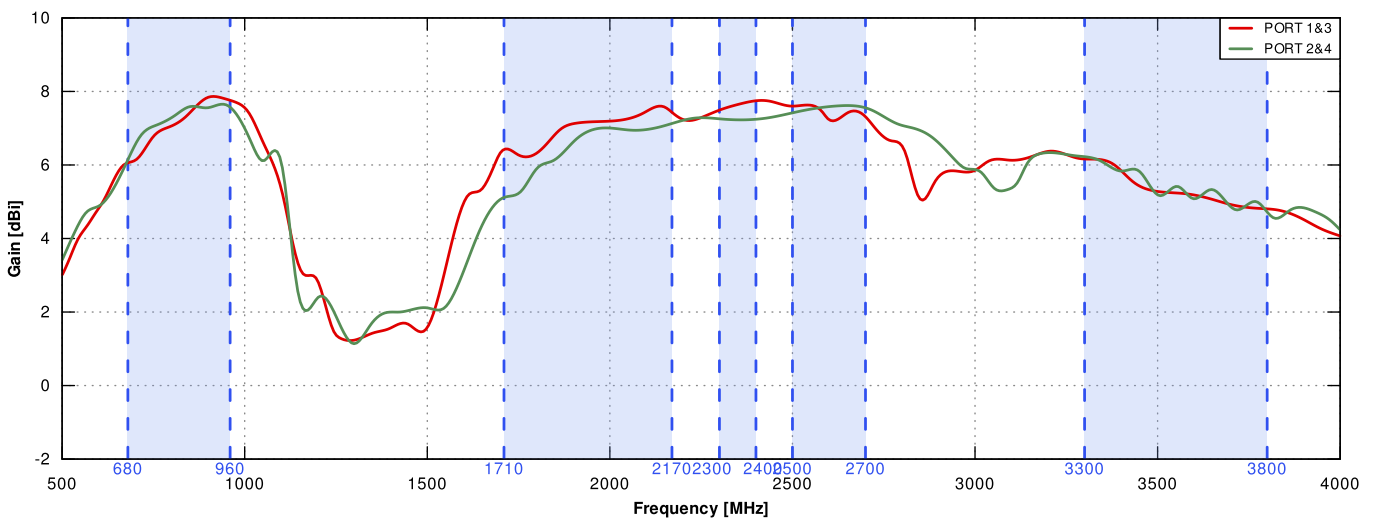
4 * SMA

PLOTS

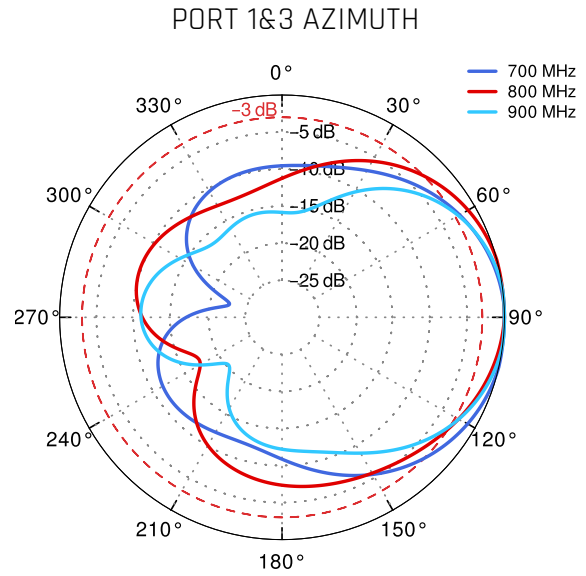
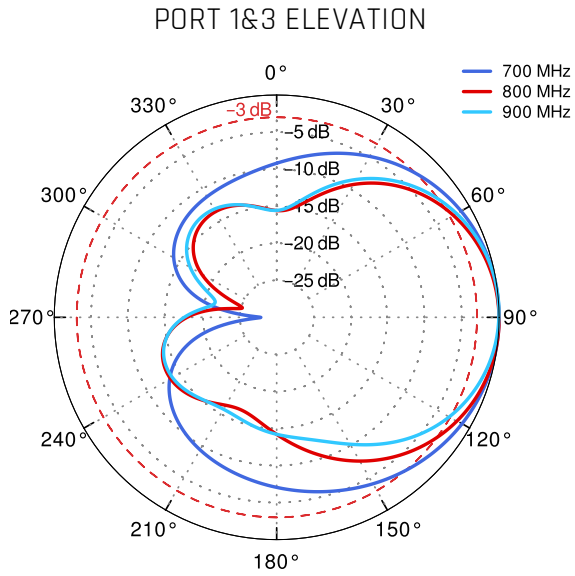
VSWR



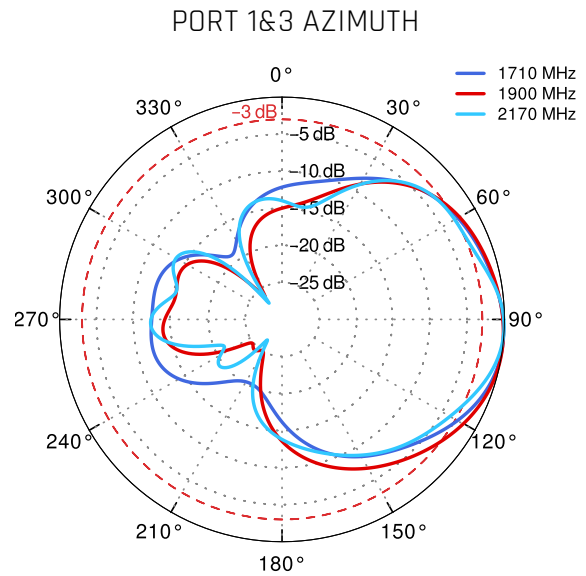
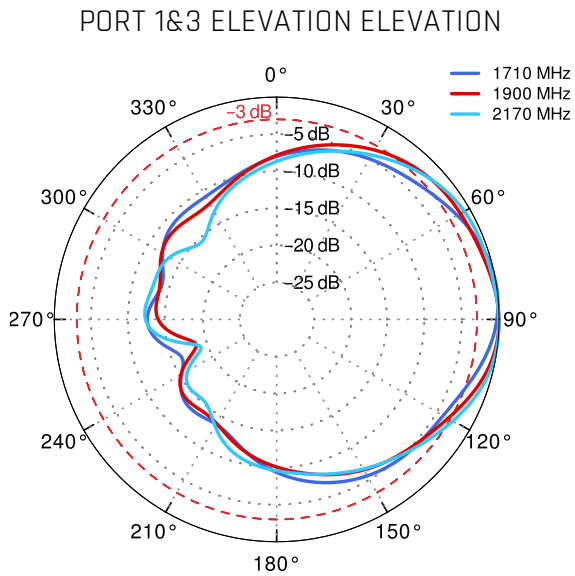
Gain



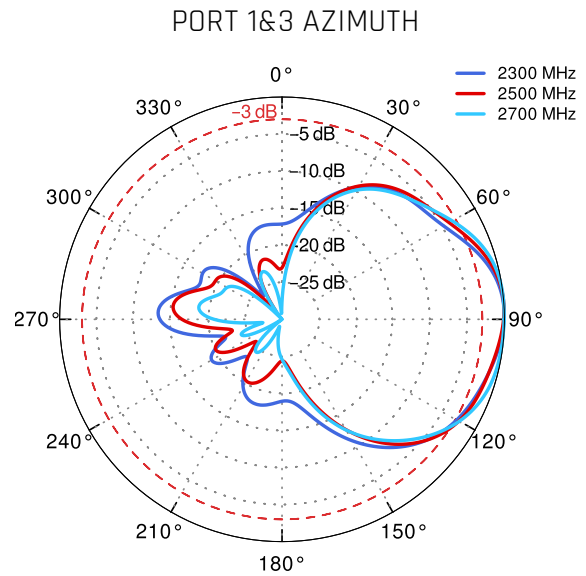
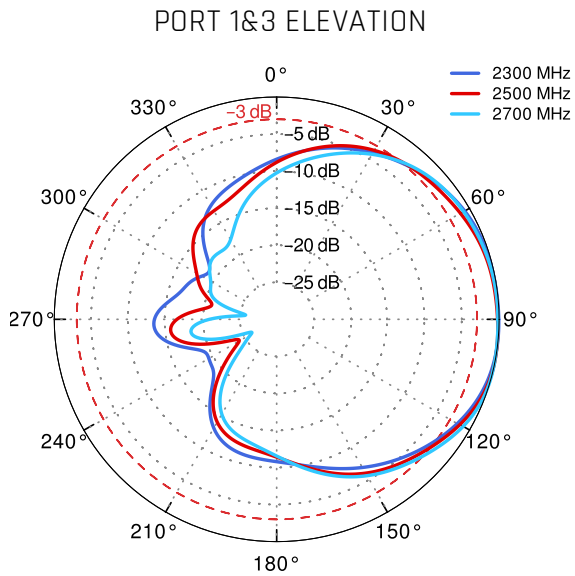
From 700MHz to 900MHz



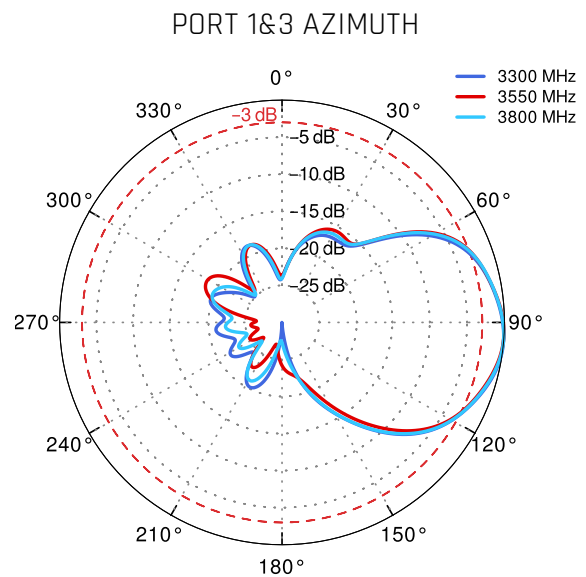
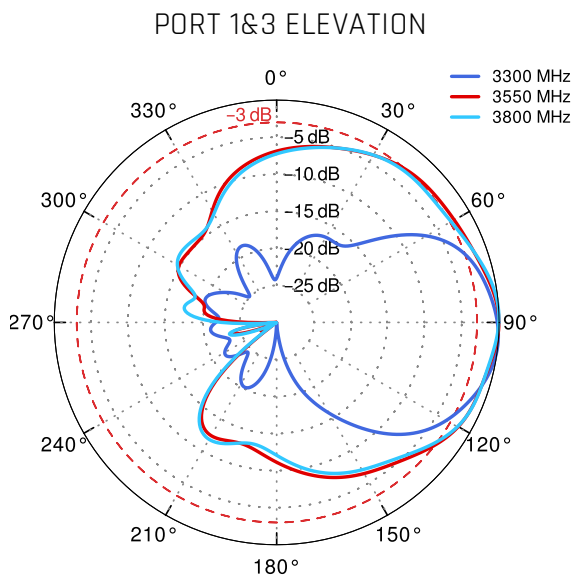
From 1.71GHz to 2.17GHz



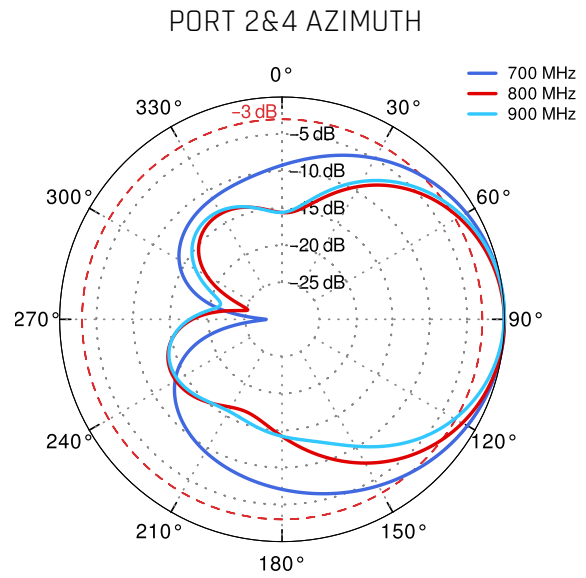
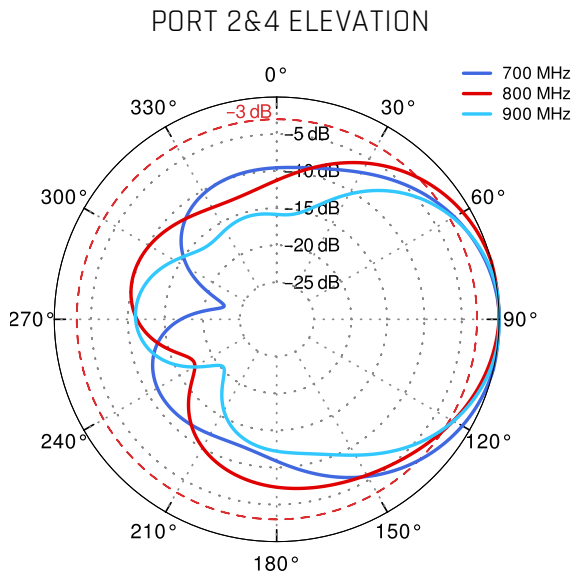
From 2.3GHz to 2.7GHz



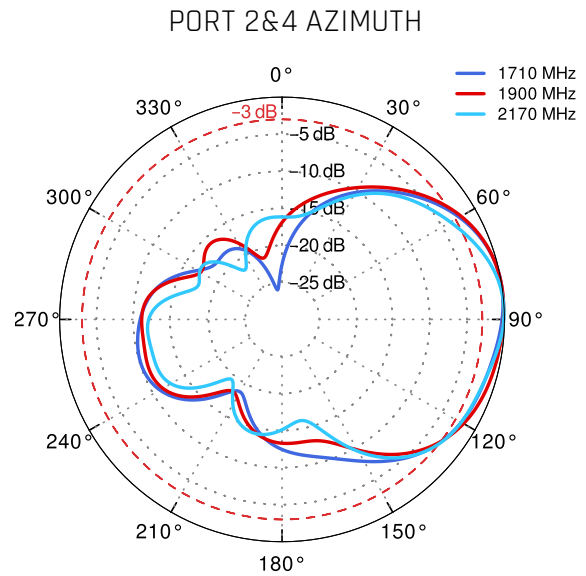
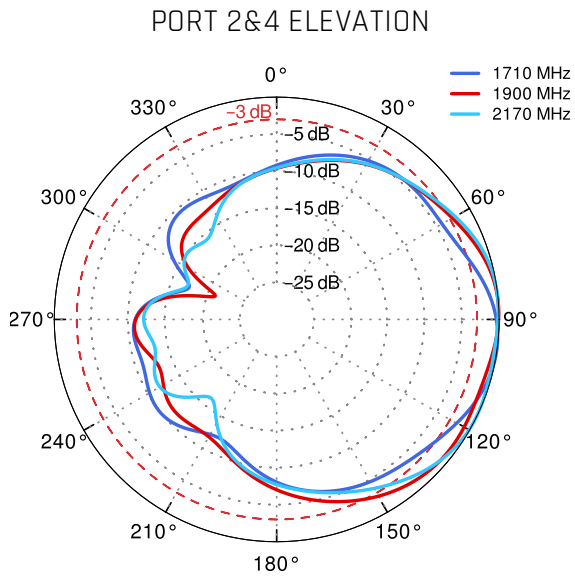
From 3.3GHz to 3.8GHz



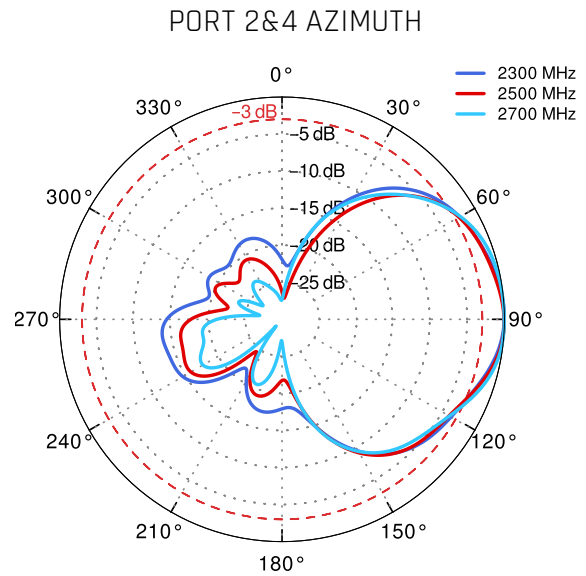
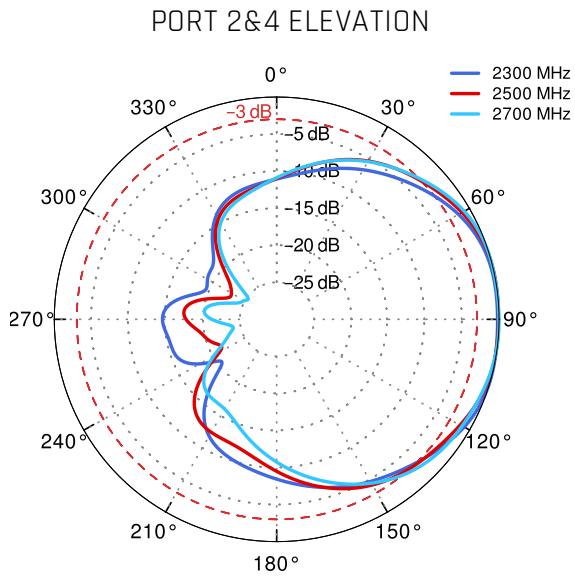
From 700MHz to 900MHz



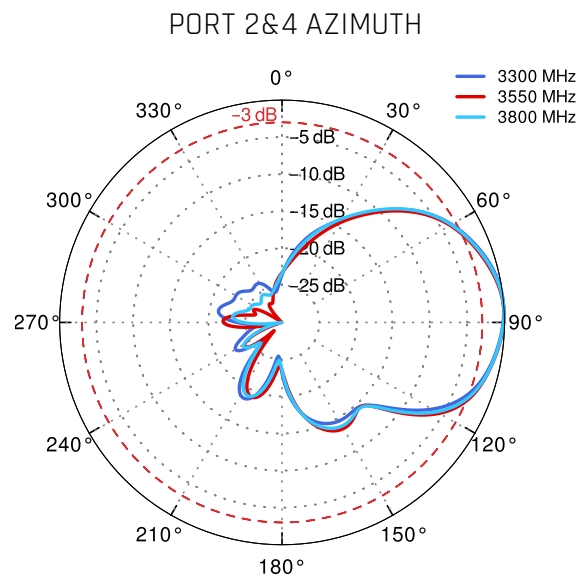
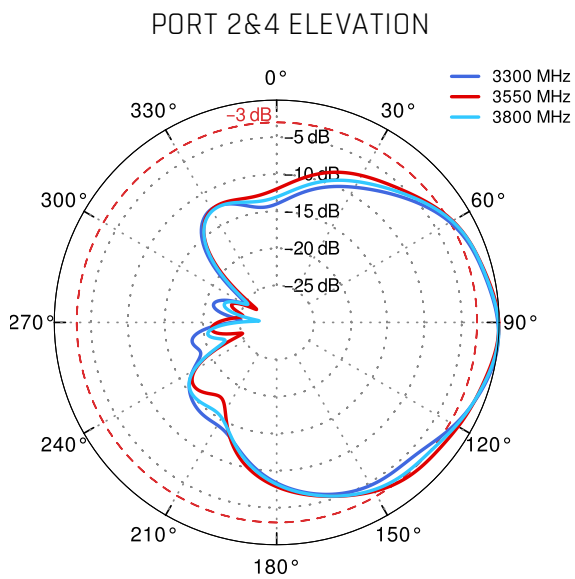
From 1.71GHz to 2.17GHz



From 2.3GHz to 2.7GHz



From 3.3GHz to 3.8GHz



DIMENSIONS

