

2' 12-Port Quasi-Omni Pattern Canister Antenna [698-896, 1695-2690 and 3300-4200 MHz]

GQ2412-07981

Description:

- Quasi-Omni Pattern Canister Antenna for Outdoor DAS and Small Cells
- 4x ports for Low Band 698-896 MHz
- 4x ports for AWS/PCS/WCS Band 1695-2690 MHz
- 4x ports for C-Band 3300-4200 MHz



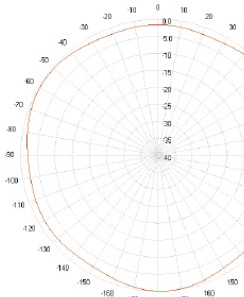
Electrical Specifications

| Frequency Band [MHz] | 698-806 | 806-896 | 1695-1910 | 1930-2020 | 2110-2200 | 2305-2360 | 2496-2690 | 3300-3550 | 3550-3700 | 3700-4200 |
|-------------------------------------|---------------------|---------|--------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|
| Input Connector Type | 4x 4.3-10(F) | | 4x 4.3-10(F) | | | | 4x 4.3-10(F) | | | |
| Isolation (dB) | 23 | | 20 | | 25 | | 20 | | | |
| VSWR /RL (dB) | 1.5:1 / 14.0 dB | | | | | | | | | |
| Impedance (Ω) | 50 Ω | | | | | | | | | |
| Polarization (°) | Dual slant 45 (±45) | | | | | | | | | |
| Horizontal Beamwidth (°) | Omni (360) | | | | | | | | | |
| Vertical Beamwidth (°) | 80 | 82 | 24 | 22 | 21 | 19 | 17 | 25 | 25 | 24 |
| Gain, max. (dBi) | 3.4 | 3.3 | 10.1 | 10.2 | 10.2 | 10.1 | 10.6 | 7.5 | 7.8 | 8.2 |
| Gain, avg. (dBi) | 2.6 | 2.8 | 8.1 | 8.5 | 8.8 | 8.7 | 8.9 | 6.8 | 6.8 | 6.7 |
| Vertical Beamwidth with Starlink(°) | 68 | 72 | 23 | 22 | 20 | 18 | 17 | 25 | 25 | 24 |
| Gain with Starlink, max. (dBi) | 4.5 | 4.3 | 8.9 | 8.5 | 9.0 | 9.1 | 9.4 | 7.5 | 7.3 | 7.9 |
| Gain with Starlink, avg. (dBi) | 3.5 | 3.6 | 7.8 | 8.1 | 8.3 | 8.4 | 8.5 | 6.7 | 6.7 | 6.4 |
| Downtilt (°) | 0 Fixed | | | | | | | | | |
| Max Power (Watt) / Port | 100 | | | | | | 100 | | | |
| PIM @ 2x43 dBm (dBc) | -153 | | | | | | -145 | | | |

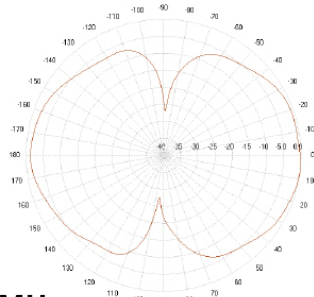
Mechanical Specifications

| | |
|---------------------------------------|-----------------------------------|
| Operating Temperature | -40° to 158°F (-40° to +70°C) |
| Antenna Weight | 25.0 lbs (11.3 kg) |
| Antenna Dimension (Diameter x Height) | 14.5" (369 mm) x 24.0" (609.6 mm) |
| Radome Material | ASA |
| Radome Color | Gray |
| Environment Rating | Outdoor (IP65) |
| Wind Survival Rating | 150 mph (241 km/h) |

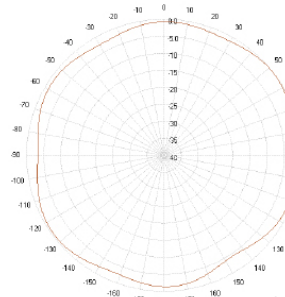
2D Antenna Patterns



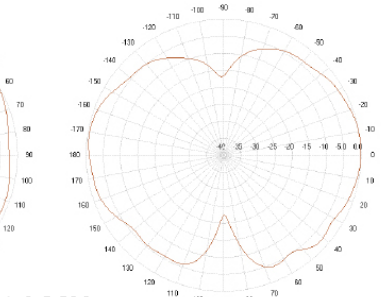
740 MHz



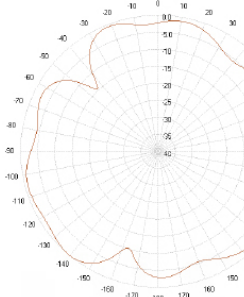
824 MHz



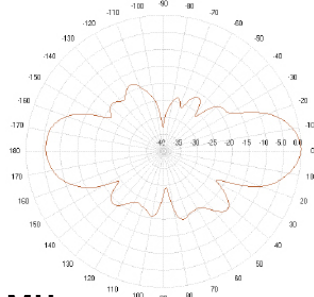
1700 MHz



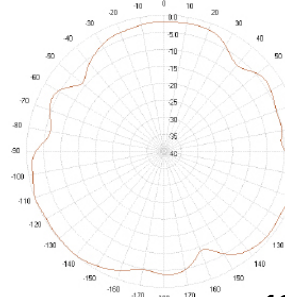
1940 MHz



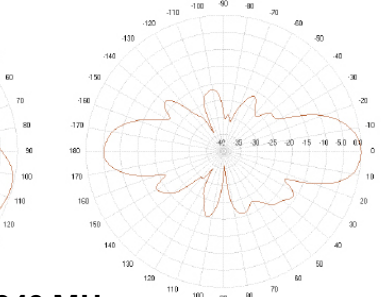
2155 MHz



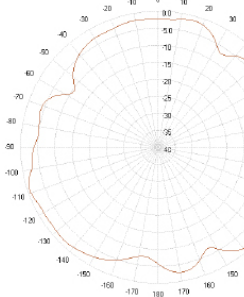
2350 MHz



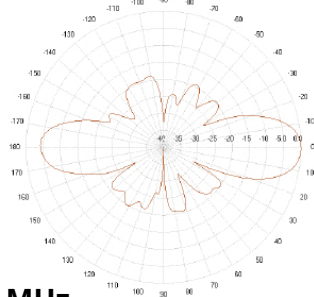
2506 MHz



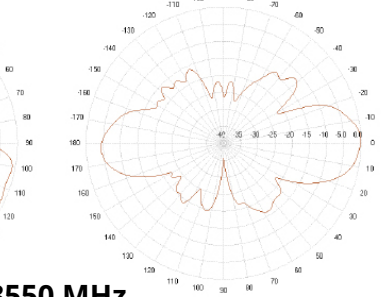
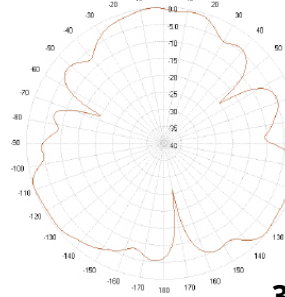
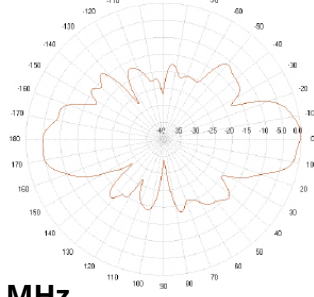
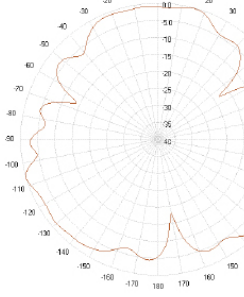
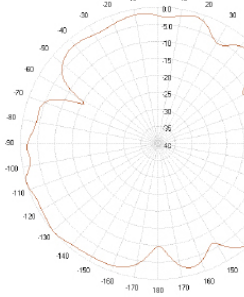
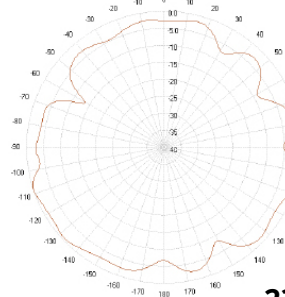
3550 MHz



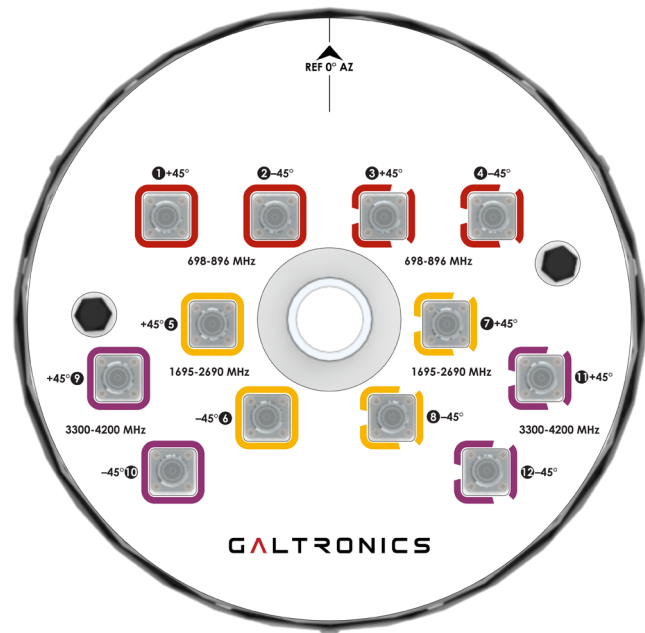
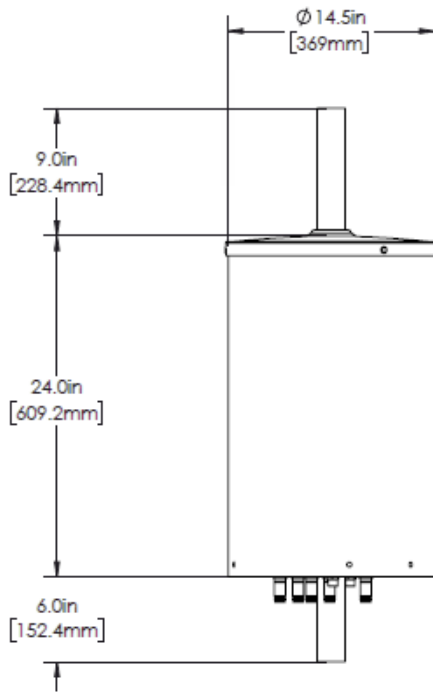
3650 MHz



4000 MHz



Additional Technical Information



Mating Connector Torque:
4.3-10: 3.7 ft-lb (5 Nm)

Part Numbers & Ordering Options

| Description | Color | Mounting Kit | Part Number |
|--|-------|--------------|------------------|
| Quasi-Omni Pattern Canister Antenna with 12 x 4.3/10(F) Connectors | Gray | N/A | GQ2412-07981-111 |