



A combination of two X-Polarized antennas in a single radome, this pair of variable tilt antennas provides exceptional suppression of all upper sidelobes at all downtilt angles. It also features null fill and a wide downtilt range with optional remote tilt. This antenna is optimized for performance across the entire frequency band (1695-2200 MHz). The antenna comes pre-connected two antenna control units (ACU).



FEATURES / BENEFITS

- Variable electrical downtilt - provides enhanced precision in controlling intercell interference. The tilt is infield adjustable 0-10 deg.
- High Suppression of all Upper Sidelobes (Typically <-20dB).
- Gain difference between UL and DL <1dB.
- Two X-Polarised panels in a single radome.
- Azimuth horizontal beamwidth difference <5deg between UL and DL (1695-1755 & 2110-2200).
- Low profile for low visual impact.
- Dual polarization; Broadband design.
- Includes (2) AISG 2.0 Compatible ACU-A20-N or ACU-A20-S antenna control units

Technical features

ELECTRICAL SPECIFICATIONS

| | | |
|---------------------------------------|-----------|--|
| Frequency Range | MHz | 1695-2200 |
| Gain | dBi (dBd) | 19 (16.9) |
| Horizontal Beamwidth | deg | 65 +/-5 (64.8 average across band) |
| Vertical Beamwidth | deg | 4.3 to 5.6 |
| Electrical Downtilt Range | deg | 0-10 |
| 1st Upper Sidelobe Suppression | dB | Typically > 20 |
| Upper Sidelobe Suppression | dB | Typically > 20 |
| Front-To-Back Ratio | dB | > 25 (Typically 28) |
| Polarization | | Dual pol +/-45° |
| VSWR | | < 1.5:1 |
| Isolation between Ports | dB | > 30 |
| 3rd Order IMP @ 2 x 43 dBm | dBc | > 150 (155 Typical) |
| 7th Order IMP @ 2x38 dBm | dBc | > 170 |
| Impedance | Ohms | 50 |
| Maximum Power Input | W | 300 |
| Beamwidth Approximate | deg | 65 |
| Frequency/Operating Band | | 3G/UMTS (Single, Broad, Dual and Triple-Band) AWS Band (1695-1755, 2110-2200 MHz) |
| Antenna Type | | Dual Polarized-Side by Side |
| Electrical Down Tilt Option | | Variable |



MECHANICAL SPECIFICATIONS

| | | |
|-------------------------------|------------|------------------------------------|
| Lightning Protection | | Direct Ground |
| Connector Type/Location | | (4) 7-16 Long Neck Female/Bottom |
| Dimensions - HxWxD | mm (in) | 1925 x 331 x 80 (75.8 x 13 x 3.15) |
| Weight w/o Mtg Hardware | kg (lb) | 25 (55) |
| Weight w/ Mtg Hardware | kg (lb) | 25.5 (55.9) |
| Survival/Rated Wind Speed | km/h (mph) | 200 (125) / 160 (100) |
| Applied Wind Load Standard | | DIN 1055-4 |
| Wind Load @ Rated Wind, Front | N (lbf) | 1026 (230) |
| Wind Load @ Rated Wind, Max. | N (lbf) | 1026 (230) |
| Wind Load @ Rated Wind, Side | N (lbf) | 314 (70) |
| Wind Load @ Rated Wind, Rear | N (lbf) | 554 (124) |
| Mount Type | | Downtilt Kit w/Scissor Kit |
| Height (Approximate) | ft. | 6.25 |

TESTING AND ENVIRONMENTAL

| | | |
|-----------------------|---------|-------------------------|
| Operation temperature | °C (°F) | -40 to 60 (-40 to 140) |
|-----------------------|---------|-------------------------|

MATERIAL

| | | |
|----------------------------|--|-------------------------------|
| Radome Material/Color | | Fiberglass/Light Grey RAL7035 |
| Mounting Hardware Material | | APM40-2 + APM40-E2 |
| Radiating Element Material | | Brass |
| Reflector Material | | Aluminum |

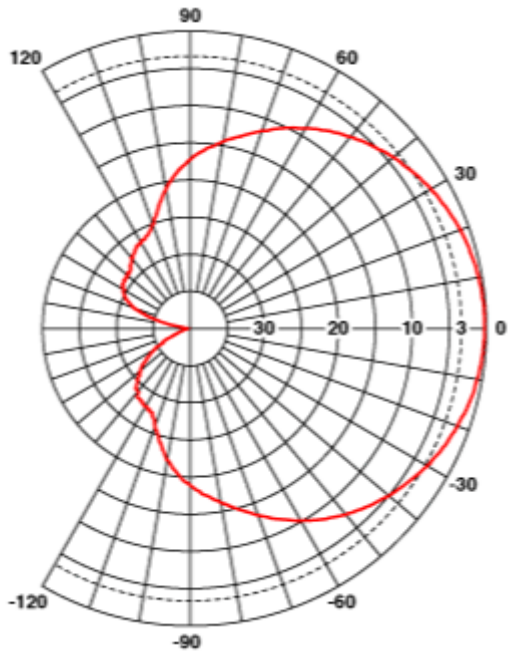
ORDERING INFORMATION

| | | |
|---------------------------|---------|------------------------------------|
| Shipping Weight | kg (lb) | 31 (68.2) |
| Packing Dimensions, HxWxD | mm (in) | 2015 x 380 x 197 (79.3 x 15 x 7.8) |
| Mounting Hardware | | APM40-2 + APM40-E2 |
| Mounting Pipe Diameter | mm (in) | 60 - 120 (2.36 - 4.72) |
| Mounting Hardware Weight | kg (lb) | 3.5 (7.7) |

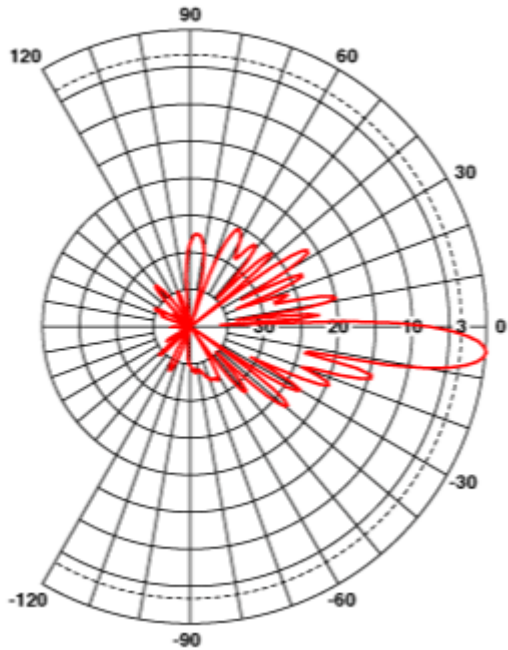


APX17DWV-17DWVS-E-A20

Optimizer® Side-by-Side Dual Polarized Antenna, 1695-2200, 65deg, 19dBi, 1.9m, VET, 0-10deg RET



Horizontal Pattern

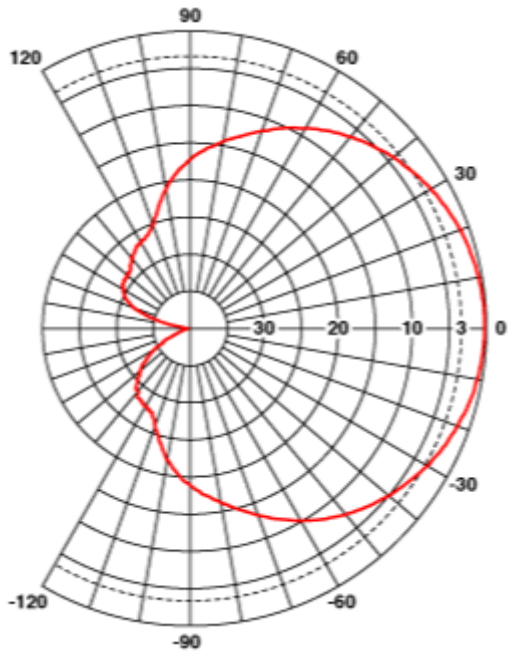


Vertical Pattern



APX17DWV-17DWVS-E-A20

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Horizontal Pattern

External Document Links

[APM40 Series Datasheet](#)

[APM40 Series Installation Instructions](#)

Notes

For additional mounting information please click "External Document Link" below.