



FEATURES / BENEFITS

- 4 ports / 2 cross pol systems in mid band (1695-2690MHz)
- 4 ports / 2 cross pol systems in high band (3300-4200MHz)
- 2 ports / 1 cross pol system in high band (5150-5925MHz)
- Fixed tilt



Technical features

ELECTRICAL SPECIFICATIONS

| Electrical Specification Header | | Mid Band Arrays (1695-2690 MHz) Ports 1-4 | | | | |
|---------------------------------|-------|---|-------------|-------------|-------------|--------------|
| Frequency Range | MHz | 1695-1880 | 1850-1990 | 1920-2200 | 2300-2496 | 2496-2690 |
| Gain | dBi | 13.2 | 13.8 | 14.2 | 14.4 | 14.9 |
| Azimuth Beamwidth 3dB | deg | 70 +/- 5 | 65 +/- 5 | 63 +/- 2 | 67 +/- 4 | 63 +/- 3 |
| Elevation Beamwidth 3dB | deg | 20 +/- 1 | 19 +/- 1 | 17 +/- 1 | 15 +/- 1 | 13.4 +/- 0.3 |
| Cross-Pol at Boresight | dB | 24 | 27 | 25 | 25 | 24 |
| F/B at 180 Copolar | dB | 30 | 29 | 32 | 33 | 29 |
| Electrical Downtilt | deg | 5 | 5 | 5 | 5 | 5 |
| First Upper Side Lobe | dB | 13 | 13 | 13 | 13 | 13 |
| VSWR | - | 1.5:1 | 1.5:1 | 1.5:1 | 1.5:1 | 1.5:1 |
| Return Loss | dB | -14 | -14 | -14 | -14 | -14 |
| Cross Polar Isolation | dB | 25 | 25 | 25 | 25 | 25 |
| 3rd Order PIM 2 x 43dBm | dB | -153 | -153 | -153 | -153 | -153 |
| Maximum CW Power per Port | Watts | 50 | 50 | 50 | 50 | 50 |
| Gain Over All Tilts | dBi | 12.9 +/-0.3 | 13.3 +/-0.5 | 13.9 +/-0.3 | 14.2 +/-0.2 | 14.7 +/-0.2 |
| Cross-Pol over Sector | dB | 13 | 6 | 6 | 10 | 10 |
| F/B at +/-30 Total Power | dB | 21 | 22 | 22 | 24 | 23 |
| Upper Side Lobe Peak to +20 | dB | 22 | 22 | 22 | 16 | 14 |



ELECTRICAL SPECIFICATIONS

| Electrical Specification Header | | High Band Arrays (3300-4200) [Ports 5-8] | | | |
|---------------------------------|-------|--|-------------|-------------|-------------|
| Frequency Range | MHz | 3300-3400 | 3400-3700 | 3700-4000 | 4000-4200 |
| Gain | dBi | 10.5 | 10.9 | 11.6 | 11.7 |
| Azimuth Beamwidth 3dB | deg | 69 +/- 2 | 65 +/- 7 | 64 +/- 9 | 55 +/- 11 |
| Elevation Beamwidth 3dB | deg | 37 +/- 3 | 34 +/- 4 | 30 +/- 5 | 28 +/- 3 |
| Cross-Pol at Boresight | dB | 23 | 22 | 18 | 19 |
| F/B at 180 Copolar | dB | 29 | 32 | 29 | 29 |
| Electrical Downtilt | deg | 5 | 5 | 5 | 5 |
| First Upper Side Lobe | dB | 16 | 16 | 12 | 12 |
| VSWR | - | 1.5:1 | 1.5:1 | 1.5:1 | 1.5:1 |
| Return Loss | dB | -14 | -14 | -14 | -14 |
| Cross Polar Isolation | dB | 25 | 25 | 25 | 25 |
| 3rd Order IMP 2 x 43dBm | dBc | / | -153 | / | / |
| Maximum CW Power per Port | Watts | 50 | 50 | 50 | 50 |
| Gain Over All Tilts | dBi | 10.2 +/- .2 | 10.4 +/- .5 | 11.1 +/- .5 | 11.3 +/- .4 |
| Cross-Pol over Sector | dB | 6 | 8 | 9 | 9 |
| F/B at +/-30 Total Power | dB | 21 | 21 | 21 | 20 |
| Upper Side Lobe Peak to +20 | dB | 22 | 22 | 22 | 22 |

ELECTRICAL SPECIFICATIONS

| Electrical Specification Header | | High Band Array (5150-5925) [Ports 9-10] |
|---------------------------------|-------|--|
| Frequency Range | MHz | 5150-5925 |
| Gain | dBi | 5.6 |
| Azimuth Beamwidth 3dB | deg | 68 +/- 9 |
| Elevation Beamwidth 3dB | deg | 26 +/- 3 |
| Cross-Pol at Boresight | dB | 13 |
| F/B at 180 Copolar | dB | 26 |
| Electrical Downtilt | deg | 0.0 |
| First Upper Side Lobe | dB | 15 |
| VSWR | - | 1.4:1 |
| Return Loss | dB | -15.5 |
| Cross Polar Isolation | dB | 25 |
| 3rd Order PIM 2 x 43dBm | dBc | / |
| Maximum CW Power per Port | Watts | 5 |
| Gain Over All Tilts | dBi | 4.6 +/- 1.0 |
| Cross-Pol over Sector | dB | 2 |
| F/B at +/-30 Total Power | dB | 18 |
| Upper Side Lobe Peak to +20 | dB | 22 |



ELECTRICAL SPECIFICATIONS

| Electrical Specification Header | 5 GHz FCC Power Requirements | | | | |
|---|------------------------------|-----------|-----------|-----------|-----------|
| U-NII Band | - | U-NII 1 | U-NII 2A | U-NII 2C | U-NII 3 |
| Frequency | MHz | 5150-5250 | 5250-5350 | 5470-5725 | 5725-5850 |
| Max Input power per port to align with FCC Title 47 Part 15 | Watts | 1.0 | .5 | .5 | .5 |

ELECTRICAL SPECIFICATIONS

| | | |
|--------------|-----|-------|
| Impedance | Ohm | 50 |
| Polarization | Deg | +/-45 |

MECHANICAL SPECIFICATIONS

| | | |
|---------------------------------|---------|-------------------------------------|
| Dimensions - H x W x D | mm (in) | 609 x 283 x 181 (24 x 11.1 x 7.1) |
| Weight (Antenna Only) | kg (lb) | 5.2 (11.5) |
| Weight (Mounting Hardware only) | kg (lb) | 4.5 (9.9) |
| Packing size- HxWxD | mm (in) | 730 x 370 x 330 (28.7 x 14.6 x 13) |
| Shipping Weight | kg (lb) | 12.2 (26.9) |
| Connector type | | 10 x 4.3-10 Long Neck Female/Bottom |
| Radome Material / Color | | ASA / Light Grey RAL7035 |

TESTING AND ENVIRONMENTAL

| | | |
|------------------------------|---------|-------------------------|
| Temperature Range | °C (°F) | -40 to 60 (-40 to 140) |
| Lightning protection | | Direct Ground |
| Survival/Rated Wind Velocity | km/h | 240 (160) |
| Wind Load @Rated Wind Front | N | 85 |
| Wind Load @Rated Wind Side | N | 63 |
| Wind Load @Rated Wind Rear | N | 124 |

ORDERING INFORMATION

| Model Number | Configuration | Mounting Hardware | Mounting pipe Diameter | Shipping Weight |
|---------------|------------------|-------------------|------------------------|-------------------|
| SP-LLYYZ06-F0 | Fixed Tilt Panel | APM40-6 | 50-120mm (2-4.72 in) | 12.2 kg (26.9lbs) |

| Port | Array | Frequency |
|------|-------|-----------|
| 1 | Y1 | 1695-2690 |
| 2 | | 1695-2690 |
| 3 | Y2 | 1695-2690 |
| 4 | | 1695-2690 |
| 5 | P1 | 3300-4200 |
| 6 | | 3300-4200 |
| 7 | P2 | 3300-4200 |
| 8 | | 3300-4200 |
| 9 | O1 | 5150-5925 |
| 10 | | 5150-5925 |

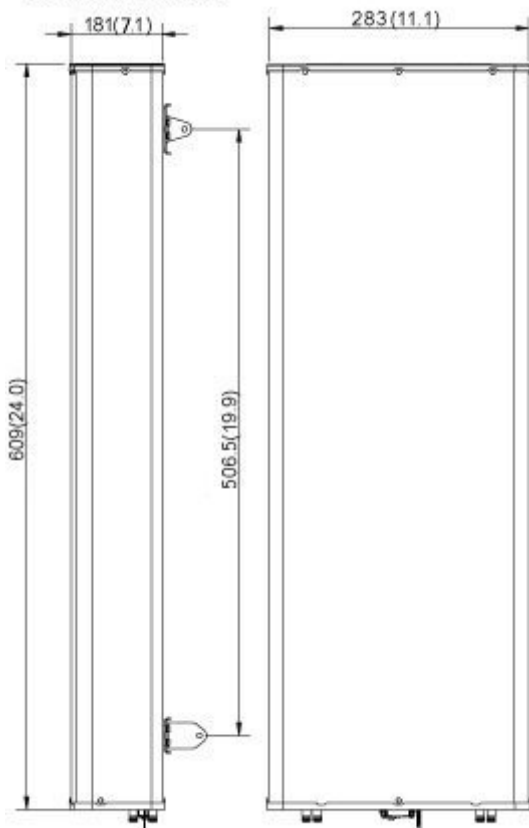


SP-LLYYZ06-F0

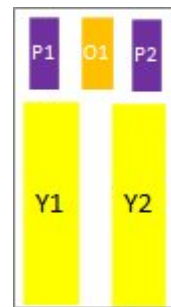
10-Ports, X-Pol, Panel Antenna, 0.6m, 2x 1695-2690/2x 3300-4200/ 5150-5925, 65deg, Fixed Tilt



Dimensions: mm (in)



This drawing is a general representation of the antenna – it does NOT accurately depict the connectors or radome shape.



External Document Links

[APM40_Series_Installation_Instructions](#)

Notes

- All electrical parameters are compliant with BASTA NGMN 11.1 requirements.
- For additional mounting information please click ""External Document Links"".
- Radiating patterns: [Request pattern files](#)