

**APXVLL21B\_43-C-I20**

Wideband X-pol Antenna, 1710-2690/1710-2690 MHz, 65deg, 19.4/20 dBi, 2.1m, 2-10deg,  
Integrated RET

**FEATURES / BENEFITS**

- 4 ports / 2 cross pol systems in high band (1710-2690MHz)
- Integrated and field replaceable SRET
- ACU HW Version -2.02
- Compliant with AISG V2.0 and 3GPP

**Technical features****ELECTRICAL SPECIFICATIONS**

| Electrical Specification Header                |      | High Band Array (1710-2690 MHz) [Y1] |              |              |              |              |
|------------------------------------------------|------|--------------------------------------|--------------|--------------|--------------|--------------|
| Frequency Band                                 | MHz  | 1710-1880                            | 1850-1990    | 1920-2170    | 2300-2400    | 2500-2690    |
| Gain Typical                                   | dBi  | 18.6                                 | 19.1         | 19.3         | 19.3         | 19.4         |
| Gain Over all Tilts                            | dBi  | 18.1 +/- 0.5                         | 18.6 +/- 0.5 | 18.8 +/- 0.5 | 18.8 +/- 0.5 | 18.9 +/- 0.5 |
| Azimuth Beamwidth 3dB                          | Deg  | 66.4 +/- 3                           | 67.3 +/- 2   | 67.6 +/- 1.5 | 64.8 +/- 2   | 59.4 +/- 4.5 |
| Elevation Beamwidth 3dB                        | Deg  | 5.2 +/- 0.5                          | 5 +/- 0.1    | 4.5 +/- 0.5  | 4 +/- 0.1    | 4 +/- 0.1    |
| Cross Polar Discrimination at Boresight        | dB   | 18                                   | 23           | 25           | 26           | 22           |
| Cross Polar Discrimination over Sector         | dB   | 13                                   | 12           | 12           | 11           | 10           |
| F/B at +/-30deg Total Power                    | dB   | 24.2                                 | 25           | 24           | 22           | 19           |
| First Upper Side Lobe Suppression              | dB   | 22                                   | 21           | 17.1         | 18.7         | 16.3         |
| Electrical Downtilt                            | Deg  | 2 to 10                              |              |              |              |              |
| Cross Polar Isolation                          | dB   | 28                                   |              |              |              |              |
| Interband Isolation                            | dB   | 28                                   |              |              |              |              |
| VSWR                                           | -    | 1.5                                  |              |              |              |              |
| Passive Intermodulation (3rd Order, 2 x 43dBm) | dBc  | -150                                 |              |              |              |              |
| Maximum Effective Power per Port               | Watt | 250                                  |              |              |              |              |

## ELECTRICAL SPECIFICATIONS

| Electrical Specification Header                |      | High Band Array (1710-2690 MHz) [Y2] |              |              |              |              |
|------------------------------------------------|------|--------------------------------------|--------------|--------------|--------------|--------------|
| Frequency Band                                 | MHz  | 1710 - 1880                          | 1850 - 1990  | 1920 - 2170  | 2300 - 2400  | 2490 - 2690  |
| Gain Typical                                   | dBi  | 18.6                                 | 19.2         | 19.4         | 19.2         | 20           |
| Gain Over all Tilts                            | dBi  | 18.1 +/- 0.5                         | 18.7 +/- 0.5 | 18.9 +/- 0.5 | 18.9 +/- 0.3 | 19 +/- 1     |
| Azimuth Beamwidth 3dB                          | Deg  | 66.6 +/- 1.5                         | 67 +/- 1.8   | 67.6 +/- 2   | 65.1 +/- 2.1 | 59.6 +/- 3.8 |
| Elevation Beamwidth 3dB                        | Deg  | 5.1 +/- 0.5                          | 5 +/- 0.1    | 4.5 +/- 0.5  | 4 +/- 0.1    | 4 +/- 0.1    |
| Cross Polar Discrimination at Boresight        | dB   | 19                                   | 23           | 25           | 26           | 21           |
| Cross Polar Discrimination over Sector         | dB   | 12.6                                 | 12           | 12           | 12           | 10.4         |
| F/B at +/-30deg Total Power                    | dB   | 24                                   | 24           | 24           | 22           | 20           |
| First Upper Side Lobe Suppression              | dB   | 25                                   | 25.2         | 21           | 20.3         | 19.9         |
| Electrical Downtilt                            | Deg  | 2 to 10                              |              |              |              |              |
| Cross Polar Isolation                          | dB   | 28                                   |              |              |              |              |
| Interband Isolation                            | dB   | 28                                   |              |              |              |              |
| VSWR                                           | -    | 1.5                                  |              |              |              |              |
| Passive Intermodulation (3rd Order, 2 x 43dBm) | dBc  | -150                                 |              |              |              |              |
| Maximum Effective Power per Port               | Watt | 250                                  |              |              |              |              |

## ELECTRICAL SPECIFICATIONS

| Impedance    | Ohm | 50   |
|--------------|-----|------|
| Polarization | Deg | ±45° |

## MECHANICAL SPECIFICATIONS

| Dimensions - H x W x D          | mm (in) | 1900 x 320 x 123 (74.8 x 12.6 x 4.8)                            |
|---------------------------------|---------|-----------------------------------------------------------------|
| Weight (Antenna Only)           | kg (lb) | 18.6 (41)                                                       |
| Weight (Mounting Hardware only) | kg (lb) | 4.5 (9.9)                                                       |
| Packing size- HxWxD             | mm (in) | 2180 x 415 x 215 (85.8 x 16.3 x 8.5)                            |
| Shipping Weight                 | kg (lb) | 27.4 (60.4)                                                     |
| Connector type                  |         | 4 x 4.3-10 female/bottom + 2 AISG connectors (1 male, 1 female) |
| Radome Material / Color         |         | Fiberglass / Light Grey RAL7035                                 |

## TESTING AND ENVIRONMENTAL

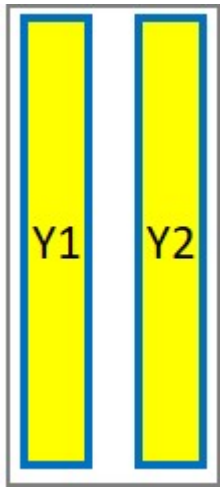
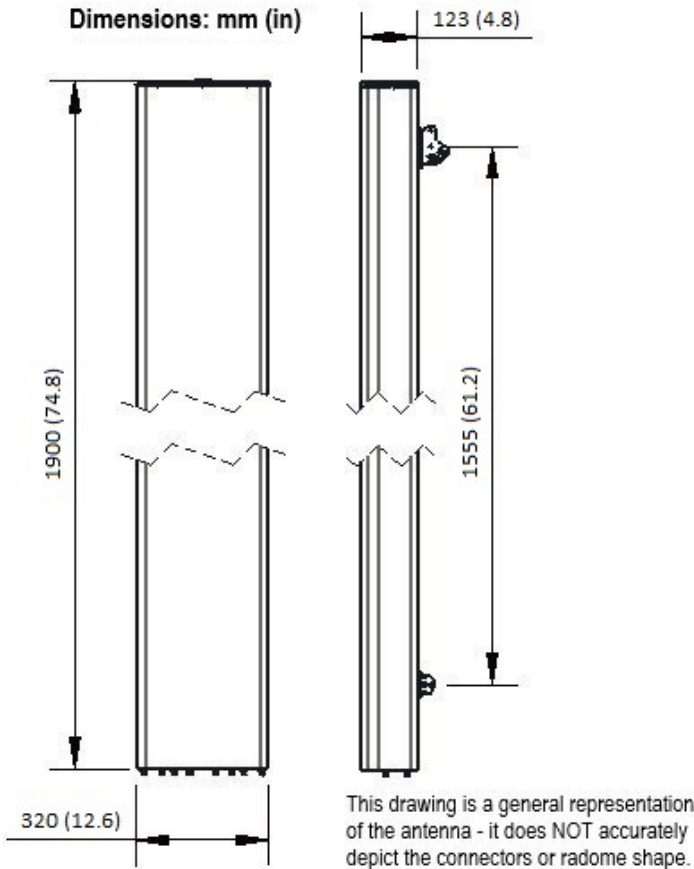
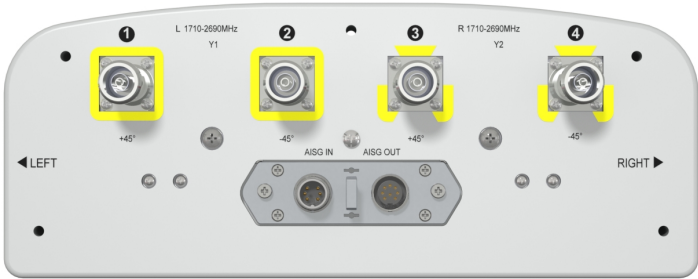
| Temperature Range            | °C (°F) | -40 to 60 (-40 to 140 ) |
|------------------------------|---------|-------------------------|
| Lightning protection         |         | Direct Ground           |
| Survival/Rated Wind Velocity | km/h    | 200 (150 )              |
| Wind Load @Rated Wind Front  | N       | 821                     |
| Wind Load @Rated Wind Side   | N       | 271                     |
| Wind Load @Rated Wind Rear   | N       | 1066                    |

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ORDERING INFORMATION

| Order No.          | Configuration            | Mounting Hardware | Mounting pipe Diameter | Shipping Weight |
|--------------------|--------------------------|-------------------|------------------------|-----------------|
| APXVLL21B_43-C-I20 | Internal RET(ACU-I20-B2) | APM50-B1          | 50-110 mm              | 27.4 Kg         |



External Document Links

[APM50\\_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](#)