

## 5874400

3-Band, 6-Port, 65°, XPOL, Panel Antenna, Fixed Tilt, 821 mm

- Tri band, XPol, panel antenna with 6 connectors
- Fixed electrical tilt on each band
- Slimline profile for low wind load



|                         |                         |                                       |  |  |
|-------------------------|-------------------------|---------------------------------------|--|--|
| <b>PRODUCT OVERVIEW</b> | Frequency Range (MHz)   | 790-960                               | 1710-2690                                | 1710-2690                                |
|                         | Array                   | <span style="color: red;">■</span> R1 | <span style="color: yellow;">■</span> Y1 | <span style="color: yellow;">■</span> Y2 |
|                         | Connector               | 1-2                                   | 3-4                                      | 5-6                                      |
|                         | Polarization            | XPOL                                  | XPOL                                     | XPOL                                     |
|                         | Azimuth Beamwidth (avg) | 65°                                   | 65°                                      | 65°                                      |
|                         | Electrical Downtilt     | Fixed                                 |  |  |
|                         | Dimensions              | 821 x 260 x 152 mm                    |  |  |



### ELECTRICAL SPECIFICATIONS Low Band

■ **R1**

|   |         |         |         |
|---|---------|---------|---------|
| Frequency Range   | MHz     | 790-960 |         |
|   | MHz     | 790-880 | 880-960 |
| Polarization  | ---     | ±45°    |         |
| Gain  | dBi     | 12.1    | 12.3    |
| Azimuth Beamwidth   | degrees | 65°     | 65°     |
| Elevation Beamwidth                                       | degrees | 24.3°   | 22.8°   |
| Electrical Downtilt                                       | degrees | Fixed   |         |
| Impedance   | Ohms    | 50      |         |
| VSWR  | ---     | < 1.5   |         |
| Passive Intermodulation<br>3rd Order for 2 x 20W Carriers | dBc     | < -153  |         |
| Front-to-Back Ratio, Total Power, ±30°                    | dB      | > 30    |         |
| Upper Sidelobe Suppression (Typical)                      | dB      | > 18    |         |
| Maximum Effective Power Per Port                          | Watts   | 500     |         |
| Intra Band Isolation                                      | dB      | > 27    |         |
| Inter Band Isolation                                      | dB      | > 35    |         |

*Standard values based on NGMN-P-BASTA version 10.0 recommendation.*

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65° 821 mm

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### ELECTRICAL SPECIFICATIONS Ultra Wide Band

■ Y1, Y2

|   |                |           |           |           |      |
|---|----------------|-----------|-----------|-----------|------|
| Frequency Range   | MHz            | 1710-2690 |           |           |      |
|   | MHz            | 1710-1880 | 1920-2170 | 2180-2690 |      |
| Polarization  | ---            | ±45°      |           |           |      |
| Gain  | Over all Tilts | dBi       | 11.5      | 12.3      | 12.4 |
| Azimuth Beamwidth   | degrees        | 65°       | 61°       | 62°       |      |
| Elevation Beamwidth                                       | degrees        | 24.3°     | 21.0°     | 19.7°     |      |
| Electrical Downtilt                                       | degrees        | Fixed     |           |           |      |
| Impedance   | Ohms           | 50        |           |           |      |
| VSWR  | ---            | < 1.5     |           |           |      |
| Passive Intermodulation<br>3rd Order for 2 x 20W Carriers | dBc            | < -153    |           |           |      |
| Front-to-Back Ratio, Total Power, ±30°                    | dB             | > 30      |           |           |      |
| Upper Sidelobe Suppression (Typical)                      | dB             | > 18      |           |           |      |
| Maximum Effective Power Per Port                          | Watts          | 300       |           |           |      |
| Intra Band Isolation                                      | dB             | > 27      |           |           |      |
| Inter Band Isolation                                      | dB             | > 35      |           |           |      |

Standard values based on NGMN-P-BASTA version 10.0 recommendation.

### MECHANICAL SPECIFICATIONS

|  |            |                  |          |
|--|------------|------------------|----------|
| Length   | mm (in)    | 821 (32.3)       |          |
| Width  | mm (in)    | 260 (10.2)       |          |
| Depth  | mm (in)    | 152 (6.0)        |          |
| Net Weight - Antenna Only  | kg (lbs)   | 6.8 (15.0)       |          |
| Mechanical Distance Between Mounting Points                      | mm (in)    | Refer to Diagram |          |
| Windload<br>(EN 1991-1-4:2005 using<br>Wind Tunnel Coefficients) | Frontal    | N (lbf)          | 154 (35) |
|  | Lateral    | N (lbf)          | 141 (32) |
|  | Rearside   | N (lbf)          | 269 (60) |
| Operational Wind Speed   | km/h (mph) | 160 (99.4)       |          |
| Survival Wind Speed  | km/h (mph) | 200 (124)        |          |

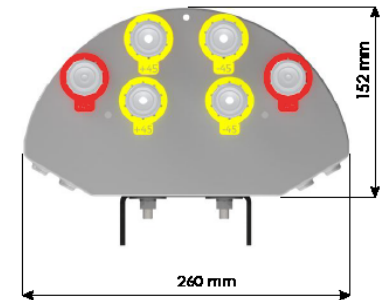
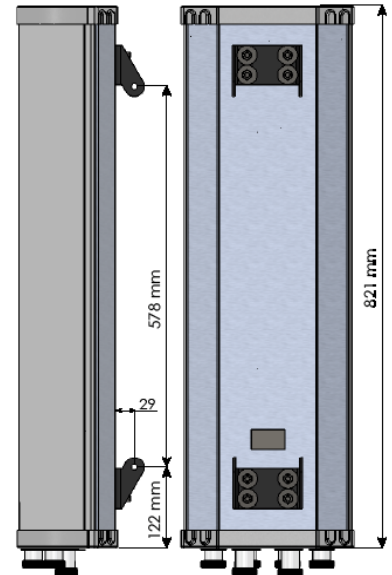
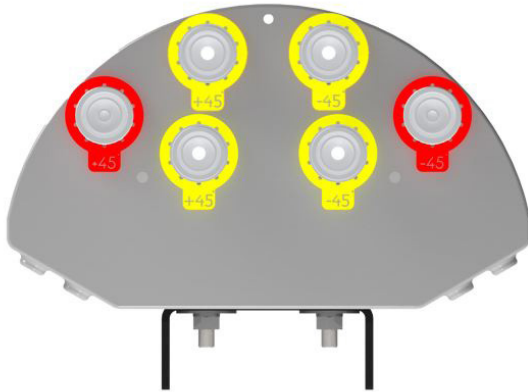
### ENVIRONMENTAL SPECIFICATIONS

|                                  |           |                              |
|----------------------------------|-----------|------------------------------|
| Environmental                    | ---       | ETS 300 019                  |
| Operating Temperature            | ° C (° F) | -40° to +60° (-40° to +140°) |
| Product Environmental Compliance | ---       | Product is RoHs Compliant    |

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| ARRAY LAYOUT | ARRAY | FREQUENCY | CONNECTOR | CONNECTOR TYPE                  |
|--------------|-------|-----------|-----------|---------------------------------|
|              | R1    | 790-960   | 1-2       | 7/16-DIN Female Long Neck       |
|              | Y1    | 1710-2690 | 3-4       | 7/16-DIN Female Ultra Long Neck |
|              | Y2    | 1710-2690 | 5-6       | 7/16-DIN Female Long Neck       |

**ACCESSORIES** All accessories are ordered separately unless otherwise indicated

| ITEM   | MODEL NUMBER | WEIGHT           |
|--|--------------|------------------|
| Brackets for pole Ø48 to Ø115 mm (Ø1.9 to Ø4.5 in) delivered as standard | 0900181/00   | 3.4 kg (7.5 lbs) |
| Kit to add mechanical tilt (0° to 10°) to above brackets optional        | 0900397/00   | 3.0 kg (6.6 lbs) |

Wall mounting brackets are available upon request

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