

## X7CQAP-FRO-833-V

+/- 45° polarization, (1) 698-896 MHz & (2) 1710-2180 MHz antennas, 96" Length, Fast Roll Off (FRO) 33° horizontal pattern, variable E-Tilt

- FRO improves intra- and inter-cell SINR
- Separate housing and reflector construction optimizes RF performance while maximizing mechanical strength
- Good passive intermodulation (PIM) performance reduces harmful interference
- Independent tilt per array
- Suitable for LTE/CDMA/UMTS/GSM
- AISG 2.0 RET control



## ELECTRICAL SPECIFICATIONS

| Frequency band, MHz                      | 698-824    | 824-896 | 1695-1880  | 1880-1990 | 1990-2180 |
|------------------------------------------|------------|---------|------------|-----------|-----------|
| Horizontal beamwidth, 3 dB points        | 35°        | 38°     | 38°        | 36°       | 30°       |
| Gain, dBi                                | 19.3       | 19.7    | 19.1       | 19.5      | 19.8      |
| Vertical beamwidth, 3 dB points          | 9.7°       | 8.5°    | 6.1°       | 5.8°      | 5.5°      |
| Upper side lobe suppression, typical, dB | <-16       | <-16    | <-16       | <-16      | <-16      |
| Front-to-back at 180°, dB                | > 30       |         | > 28       |           |           |
| Polarization                             | +/-45°     |         | 2x +/-45°  |           |           |
| Electrical downtilt                      | 0°-10°     |         | 0°-12°     |           |           |
| VSWR/return loss, dB, maximum            | 1.5:1/14.0 |         | 1.5:1/14.0 |           |           |
| Isolation between ports, dB, minimum     | >28        |         | >28        |           |           |
| Co-pole isolation inter-antenna          | N/A        |         | > 28       |           |           |
| Intermodulation (2x20 W), IM3, dBc       | -153       |         | -153       |           |           |
| Impedance, ohms                          | 50         |         | 50         |           |           |
| Maximum power per connector, CW (W)      | 500        |         | 250        |           |           |

## MECHANICAL SPECIFICATIONS

|                                        |                                                |
|----------------------------------------|------------------------------------------------|
| Dimensions, length/width/depth         | 96.0 x 24 x 9.4 in. (2438.4/609.6/246.38 mm)   |
| Connector (quantity) type non-IP model | (6 total: 2 low-, 4 high band) 7-16 DIN female |
| Connector torque                       | 220-265 lbf-in (23-30 N-m)                     |
| Connector location                     | back                                           |
| Antenna weight                         | 85 lbs. (38.5554 kg)                           |
| Bracket weight                         | 18.2 lbs. (8.25 kg)                            |
| Standard bracket kit                   | P/N 919032 (Included)                          |
| Mechanical downtilt range              | 0° - 6°                                        |
| Radome material                        | high-strength Luran® UV stabilized, ASTM D1925 |
| Wind survival                          | 100 mph (160 km/h)                             |
| Front wind load @100 mph               | 397.6 lbf (1768.5 N) @100mph                   |
| Equivalent flat plate @100 mph         | 7.92 sq. ft. (c=2) @ 100mph                    |

## RET INFORMATION

|                        |                 |
|------------------------|-----------------|
| Model                  | RET-200         |
| Mounting location      | Rear of antenna |
| Communication standard | AISG 2.0        |
| Control system         | PCU-1000        |



## ORDER INFORMATION

| MODEL             | DESCRIPTION                                                     |
|-------------------|-----------------------------------------------------------------|
| X7CQAP-FRO-833-VR | 8F,HEX,FRO,33°0-10°/ 0-12° EDT with remote adjust E-tilts (EDT) |

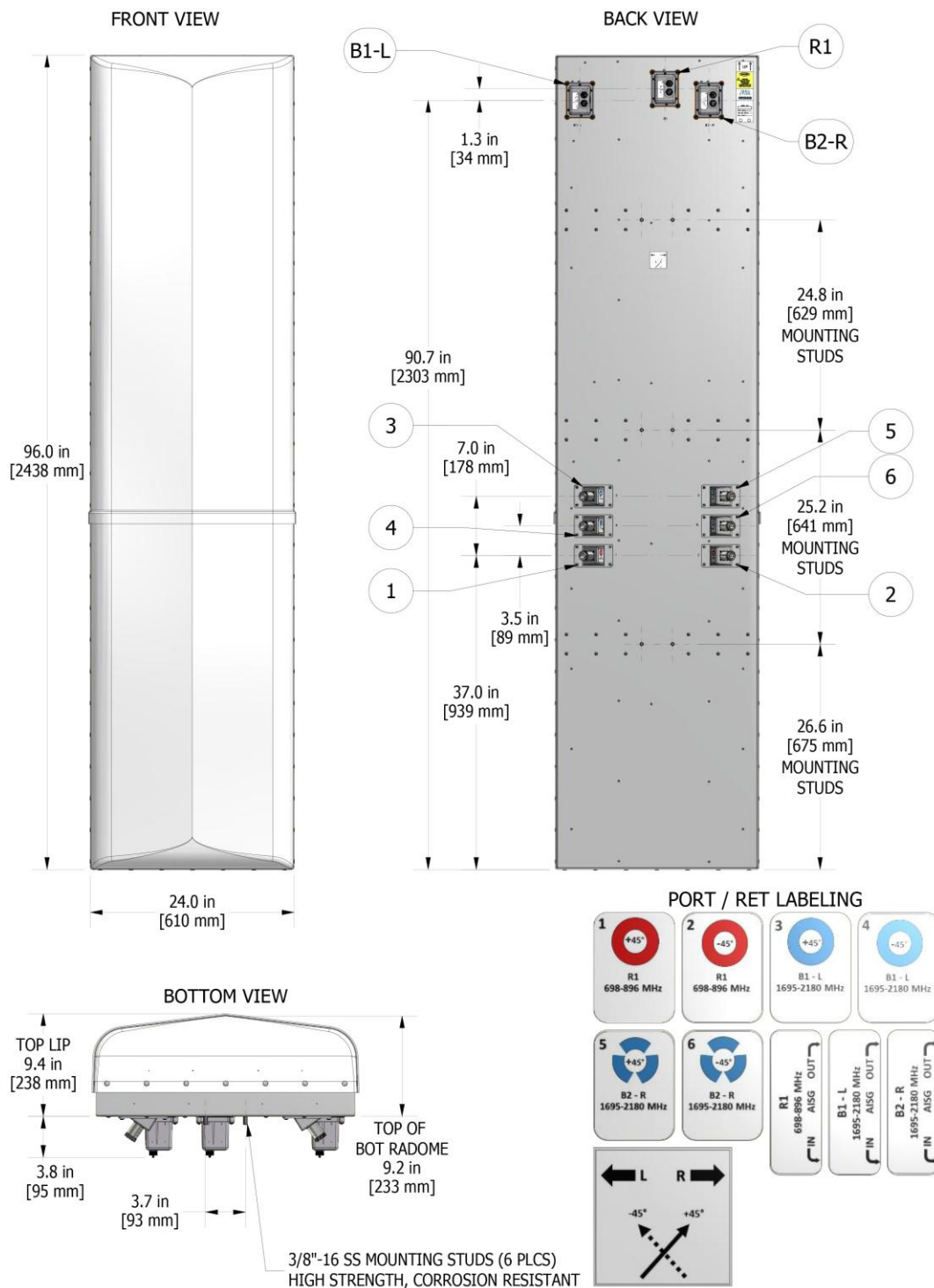
## RET ORDERING INFORMATION

| MODEL           | DESCRIPTION                        |
|-----------------|------------------------------------|
| 992100-CA005-SC | AISG jumper cable, M/F, 0.5 meters |

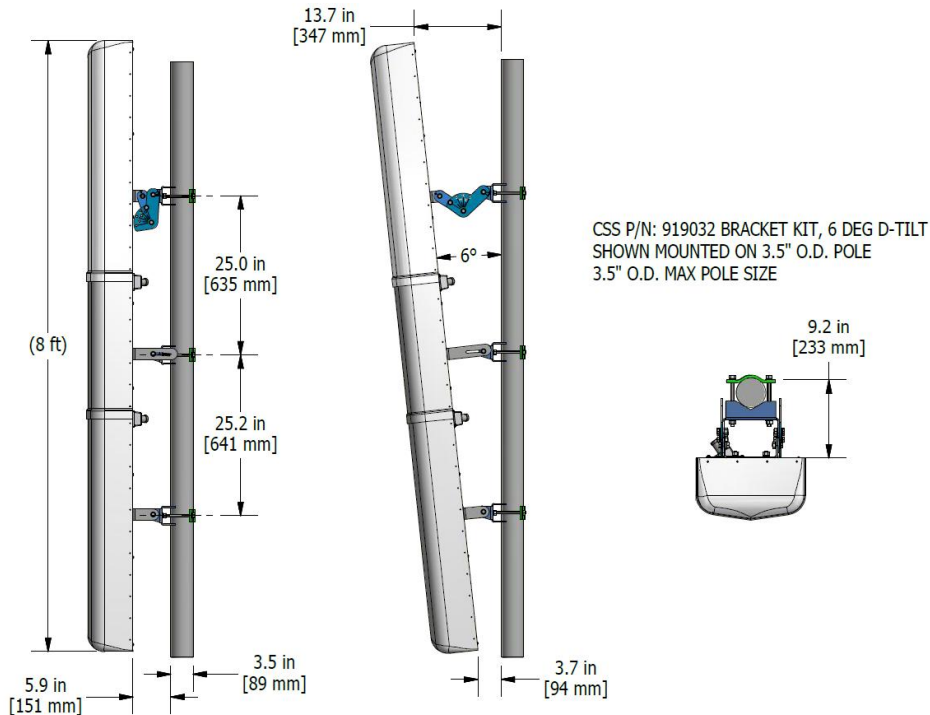
## OPTIONAL BRACKET OPTION

| MODEL  | DESCRIPTION                                                      |
|--------|------------------------------------------------------------------|
| 919049 | Optional bracket kit, 3-point, 6-degree D-tilt, For 4.5" OD Pole |

## MECHANICAL VIEWS: X7CQAP-FRO-833-VR



## Standard bracket kit



## Optional bracket kit

