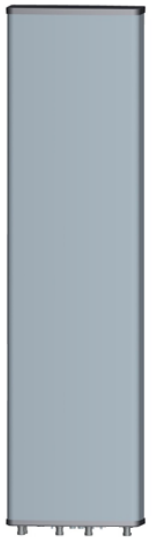


|                       |             |
|-----------------------|-------------|
| Frequency Range       | 3300-4200x2 |
| Polarization          | ±45°        |
| Half-Power Beam Width | 65°         |
| Electrical Downtilt   | 0° - 8° x2  |

Type QUA4-2HX-CB65

Dual-Band 3300-4200 / 3300-4200 MHz 65°, 18.5 / 18.5 /dBi, 0°-8° / 0°-8°Tilt Antenna With 2 Integrated RCUs and 2 Indicators

**Electrical Specifications**



| Frequency Range(MHz)                               |                     | 2x3300-4200 |           |
|----------------------------------------------------|---------------------|-------------|-----------|
|                                                    |                     | 3300-3600   | 3600-4200 |
| Polarization                                       |                     | ±45         |           |
| Horizontal 3dB Beamwidth(°)                        |                     | 65          | 60        |
| Vertical 3dB Beamwidth(°)                          |                     | 4.5         | 4.2       |
| Gain (dBi)                                         |                     | 18          | 18.5      |
| Electrical Downtilt                                |                     | 0° - 8°     |           |
| Upper Sidelobe Suppression(dB)                     | First               | ≥16         | ≥16       |
| Front-to-Back Ratio Total Power, ±30° (dB)         |                     | ≥25         | ≥25       |
| Cross polar ratio                                  | Main direction (dB) | ≥17         | ≥17       |
|                                                    | ±60° (dB)           | ≥7          | ≥7        |
| Isolation ports                                    |                     | ≥28dB       |           |
| VSWR                                               |                     | < 1.5       |           |
| Impedance                                          |                     | 50 Ω        |           |
| Max. Power per Input (at 50°C ambient temperature) |                     | 250 W       |           |
| Lightning Protection                               |                     | DC Ground   |           |

## Mechanical Specifications

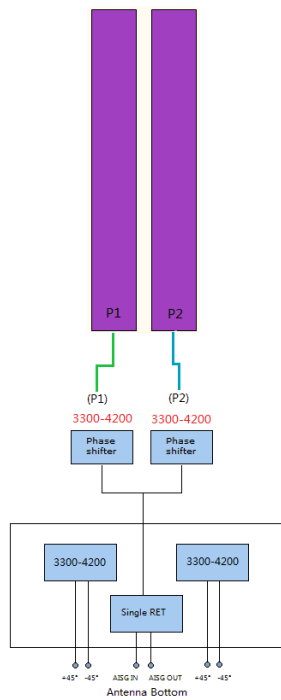
|                                                   |                                                                         |
|---------------------------------------------------|-------------------------------------------------------------------------|
| Radome Material                                   | Fiberglass                                                              |
| Connector Type and Location                       | 4.3-10x4, Bottom<br>iRCU in:1 x 8 pin male<br>iRCU out:1 x 8 pin female |
| Dimensions,HxWxD(mm)/(inches)                     | 1200 x 168 x 90 / 47.2 x 6.6 x 3.5                                      |
| Packing Size(mm)/(inches)                         | 1500 x 290 x 235 / 59.1 x 11.4 x 9.3                                    |
| Weight ,w/o Mounting kit(kg)/(lbs)                | 12.5/ 27.5                                                              |
| Weight w/ Downtilt Bracket(kg)/(lbs)              | 17.5 / 38.5                                                             |
| Weight w/ Fixed Bracket(kg)/(lbs)                 | 15.5 /34.1                                                              |
| Packing Weight (w/ Downtilt Bracket) (kg)/(lbs)   | 23.5 / 51.7                                                             |
| Packing Weight (w/ Fixed Bracket) (kg)/(lbs)      | 21.5/47.3                                                               |
| Max. Wind Velocity(mph)                           | 150                                                                     |
| Mounting hardware                                 | Φ 50 mm ~ Φ 115 mm                                                      |
| Operational Temperature(°C)                       | -40 to +65                                                              |
| Operational Humidity(%)                           | <95                                                                     |
| Wind Load at 100mph (Frontal/lateral/Rearside(N)) | 233/77/167                                                              |

Type QUA4-2HX-CB65

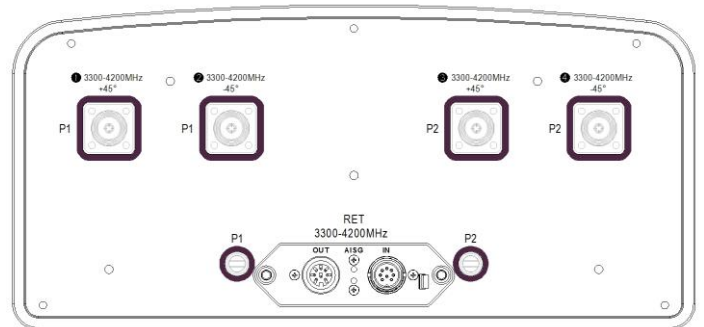
### Integrated RET Properties

|                             |                                                                                                                                                                                  |                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| RET Type                    | 2x Type 1 Single RET                                                                                                                                                             |                                                                                                      |
| Protocols                   | Compliant to AISG 2.0/3GPP                                                                                                                                                       |                                                                                                      |
| Input voltage range         | +10~+30VDC(pin 6)                                                                                                                                                                |                                                                                                      |
| Power consumption           | <2W(stand by);<13W(motor activated)                                                                                                                                              |                                                                                                      |
| Connectors                  | AISG                                                                                                                                                                             | 2 x 8 pin connector acc. To IEC 60130-9<br>Acc.to AISG Daisy chain in:male<br>Daisy chain out:female |
|                             | Antenna                                                                                                                                                                          | Two motor shaft(Embedded motor)                                                                      |
| Hardware interface          | AISG                                                                                                                                                                             | RS485A/B(pin5/pin3);Power supply(pin6);<br>DC return(pin7)Acc.to AISG                                |
| Adjustment time(full range) | 40 sec(typically,depending on antenna)                                                                                                                                           |                                                                                                      |
| Adjustment Cycles           | $\geq 10000$                                                                                                                                                                     |                                                                                                      |
| Torque Max                  | $\geq 160\text{mN.m}$                                                                                                                                                            |                                                                                                      |
| Lightning Protection Rating | IEC 61000-4-5 Current Pulse Profile,8/20 $\mu\text{s}$ 10 Repetitions Min.@ 6kA<br>IEC 61312-1 Annex B Current Pulse Profile, 10/350 $\mu\text{s}$ ,200 Repetitions Min. @ 0.6kA |                                                                                                      |

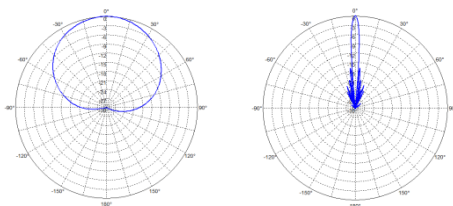
### COMPREHENSIVE TILT CONFIGURATION



| Frequency Range | Array | RET Unique ID       |
|-----------------|-------|---------------------|
| 3300-4200MHz    | P1    | NDPMXXXXXXXX-3342P1 |
| 3300-4200MHz    | P2    | NDPMXXXXXXXX-3342P2 |



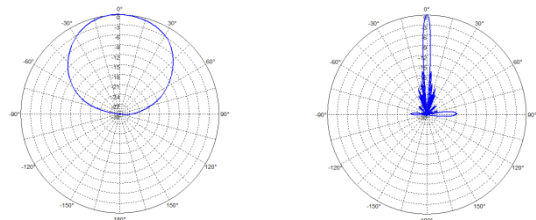
### Radiation Patterns (3300 - 3600 MHz)



Horizontal Pattern

Vertical Pattern

### Radiation Patterns (3600-4200 MHz)



Horizontal Pattern

Vertical Pattern