

|                       |                                         |
|-----------------------|-----------------------------------------|
| Frequency Range       | 617-894x2<br>1695-2690x2<br>3400-4200x2 |
| Polarization          | ±45°                                    |
| Half-Power Beam Width | 360°                                    |
| Electrical Downtilt   | 0°x2<br>2°-8°x2<br>2°-12°x2             |

Type CAN6-2LX4HX

## Omni Antenna

12-port 617-894 / 617-894 / 1695-2690 / 1695-2690 / 3400-4200 / 3400-4200 MHz 360°, 9 / 9 / 18 / 18 / 18 / 18 dBi, 0° / 0° / 2°-12° / 2°-12° / 2°-8° / 2-8 °Tilt Antenna With 4 Integrated RCUs.

### Electrical Specifications

| Frequency Range(MHz)                                  |       | 2x617-894                   |         |         | 2x1695-2690 |           |           |           | 2x3400-4200 |           |
|-------------------------------------------------------|-------|-----------------------------|---------|---------|-------------|-----------|-----------|-----------|-------------|-----------|
|                                                       |       | 617-698                     | 698-824 | 824-894 | 1695-1920   | 1920-2180 | 2300-2400 | 2490-2690 | 3400-3800   | 3800-4200 |
| Polarization                                          |       | ±45°                        |         |         |             |           |           |           |             |           |
| Horizontal 3dB Beamwidth(°)                           |       | 360                         | 360     | 360     | 360         | 360       | 360       | 360       | 360         | 360       |
| Vertical 3dB Beamwidth(°)                             |       | 24.5                        | 22      | 20      | 5           | 4.5       | 3.8       | 3.5       | 2.5         | 2.2       |
| Gain (dBi)                                            |       | 8.2                         | 8.5     | 9       | 16.5        | 17        | 17.5      | 18        | 17.8        | 18.3      |
| Electrical Downtilt                                   |       | 0°                          |         |         | 2°-12°      |           |           |           | 2°-8°       |           |
| Upper Sidelobe Suppression(dB)                        | First | ≥12                         | ≥12     | ≥12     | ≥16         | ≥16       | ≥16       | ≥16       | ≥16         | ≥16       |
| Isolation ports                                       |       | ≥20 dB                      |         |         |             |           |           |           |             |           |
| Isolation Frequency                                   |       | ≥20 dB                      |         |         |             |           |           |           |             |           |
| VSWR                                                  |       | < 1.5                       |         |         |             |           |           |           |             |           |
| Intermodulation IM3                                   |       | < -150 dBc(2x43dBm carrier) |         |         |             |           |           |           |             |           |
| Impedance                                             |       | 50 Ω                        |         |         |             |           |           |           |             |           |
| Max. Power per Input<br>(at 50°C ambient temperature) |       | 500 W                       |         |         | 200 W       |           |           |           | 150 W       |           |
| Lightning Protection                                  |       | DC Ground                   |         |         |             |           |           |           |             |           |



### Mechanical Specifications

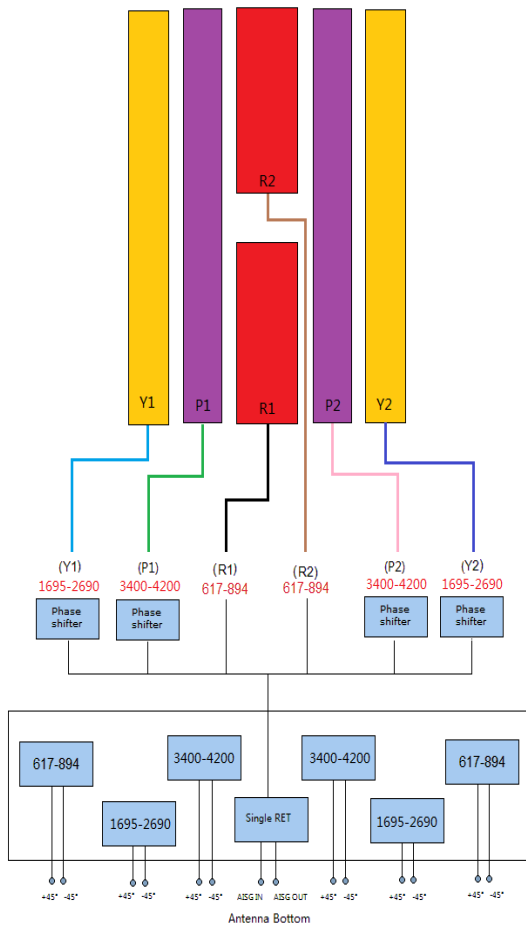
| Radome Material                                      | Fiberglass                                                                 |
|------------------------------------------------------|----------------------------------------------------------------------------|
| Connector Type and Location                          | 4.3-10x12, Bottom<br>iRCU in: 1 x 8 pin male<br>iRCU out: 1 x 8 pin female |
| Dimensions, HxWxD(mm)/(inches)                       | 1800 x φ418 / 70.9 x φ16.5                                                 |
| Packing Size(mm)/(inches)                            | 2100 x 525 x 525 / 82.7 x 20.7 x 20.7                                      |
| Weight ,w/o Mounting kit(kg)/(lbs)                   | 49.5 / 108.9                                                               |
| Weight w/ Fixed Bracket(kg)/(lbs)                    | 60.5 / 133.1(300mm/11.8inches)                                             |
| Packing Weight (w/ Fixed Bracket)<br>(kg)/(lbs)      | 70.5 / 155.1                                                               |
| 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<br>(Frontal/lateral/Rearside(N)) | 486                                                                        |

|                       |                                         |
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| Electrical Downtilt   | 0°x2<br>2°-8°x2<br>2°-12°x2             |

### Integrated RET Properties

|                             |                                                                                                                                                           |                                                                                                      |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| RET Type                    | 4 x 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           | ≥10000                                                                                                                                                    |                                                                                                      |
| Torque Max                  | ≥160mN.m                                                                                                                                                  |                                                                                                      |
| Lightning Protection Rating | IEC 61000-4-5 Current Pulse Profile,8/20 μs 10 Repetitions Min.@ 6kA<br>IEC 61312-1 Annex B Current Pulse Profile, 10/350 μs,200 Repetitions Min. @ 0.6kA |                                                                                                      |

### COMPREHENSIVE TILT CONFIGURATION

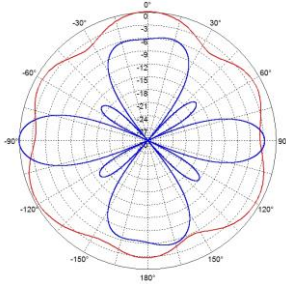


| Frequency Range | Array | RET Unique ID       |
|-----------------|-------|---------------------|
| 617-894MHz      | R1    |                     |
| 617-894MHz      | R2    |                     |
| 1695-2690MHz    | Y1    | NDPMXXXXXXXX-1727Y1 |
| 1695-2690MHz    | Y2    | NDPMXXXXXXXX-1727Y2 |
| 3400-4200MHz    | P1    | NDPMXXXXXXXX-3442P1 |
| 3400-4200MHz    | P2    | NDPMXXXXXXXX-3442P2 |

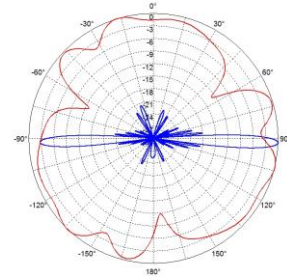
Type CAN6-2LX4HX

|                       |                               |
|-----------------------|-------------------------------|
| Frequency Range       | 617-894x2                     |
|                       | 1695-2690x2                   |
|                       | 3400-4200x2                   |
| Polarization          | $\pm 45^\circ$                |
| Half-Power Beam Width | $360^\circ$                   |
| Electrical Downtilt   | $0^\circ \times 2$            |
|                       | $2^\circ - 8^\circ \times 2$  |
|                       | $2^\circ - 12^\circ \times 2$ |

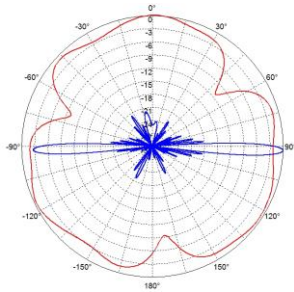
## [Radiation Pattern]



**617-894MHz**  
(Blue E-plane, Red H-plane)



**1695-2690MHz**  
(Blue E-plane, Red H-plane)



**3400-4200MHz**  
(Blue E-plane, Red H-plane)