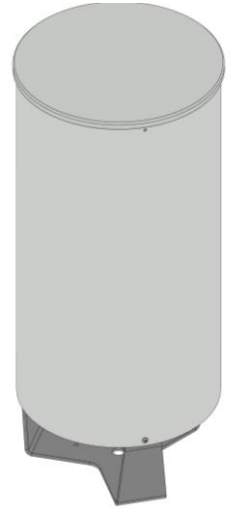


# CX18TRI265-1T and 2T

NWAV™ X-Pol Tri-sector Antenna | 18-Port | 2 ft | 65°

## 18-port 2 ft 65° Tri-sectored Hex Cantenna with RET/MET-controlled HB (6) 698-960 MHz & (12) 1695-2700 MHz

- X-pol, small cell Hex-Port antenna
- Suitable for pole or building mount
- 4x4 MIMO high-band
- 2x2 MIMO low-band
- 3-sector configuration
- Dependent RET/MET control for HB ports
- Suitable for LTE/UMTS/CDMA/GSM technologies
- Cost-effective solution for neutral host locations



**nwav**  
technology

Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6				
	Frequency bands, MHz	698-798	824-960	1695-1880	1850-1990	1920-2180	2300-2500
Polarization	± 45°		± 45°				
Average gain over all tilts, dBi	8.7	8.9	13.7	14.4	13.9	14.3	15.1
Horizontal beamwidth (HBW), degrees	94°	92°	61°	53°	81°	76°	65°
Vertical beamwidth, (VBW), degrees <sup>1</sup>	36°	28°	15.4°	14.3°	12.9°	12.1°	11.0°
Electrical downtilt (EDT) range, degrees	0° (FET)		2-8° (RET/MET)				
Minimum cross-polar isolation, port-to-port, dB	25	25	25	25	25	25	25
Maximum VSWR/return loss, dB	1.5:1/ -14.0		1.5:1/ -14.0				
Maximum passive intermodulation (PIM), 2 x 20 W carrier, dBc	-153		-153				
Maximum input power per any port, watts	250		150				

<sup>1</sup> Typical value over frequency and tilt

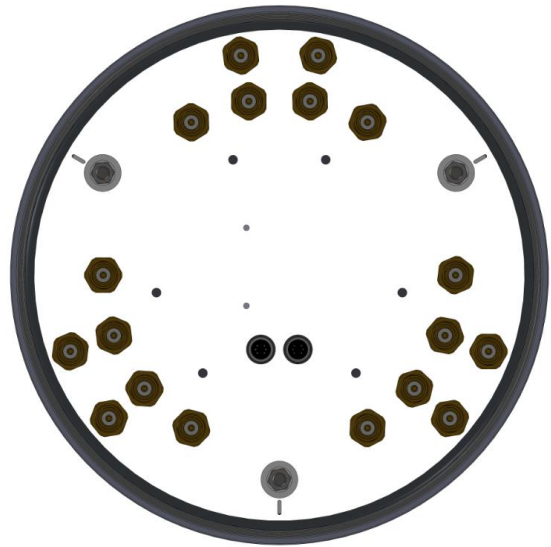
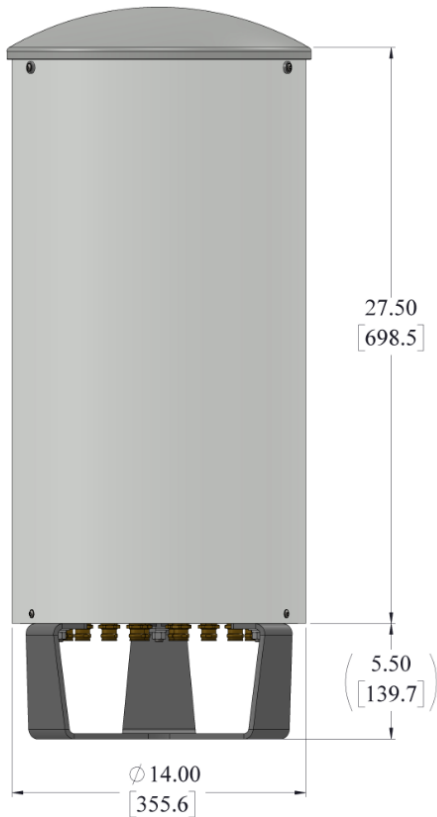
# CX18TRI265-1T and 2T

NWAV™ X-Pol Tri-sector Antenna | 18-Port | 2 ft | 65°

Mechanical specifications	
Dimensions height/diameter, inches (mm)	27.5/14 (698.5/355.6)
No. of RF input ports, connector type & location	18 x 4.3-10 female, bottom
RF connector torque	96 lbf-in (10.85 N m or 8 lbf-ft)
Net antenna weight, lb. (kg)	38.6 (17.5)
Rated wind survival speed, mph (km/h)	150 (241)
Frontal wind loading @ 160 km/h, lbf (N)	47.6 (211.5)
Equivalent flat plate @100 mph and Cd=2, sq. ft	0.96

Front view

End view



Ordering information	
Antenna model	Description
CX18TRI265-1T	2F X-Pol HEX TRI 65° LB 0° FET, HB 2-8° RET, 4.3-10
CX18TRI265-2T	2F X-Pol HEX TRI 65° LB 0° FET, HB 2-8° MET, 4.3-10

# CX18TRI265-1T and 2T

NWAV™ X-Pol Tri-sector Antenna | 18-Port | 2 ft | 65°

Remote Electrical Tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET interface connector quantity	1 pair of AISG male/female connectors
RET interface connector location	Bottom of the antenna
Total no. of internal RETs high bands	3
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤ 2.0
RET max power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0/ 3GPP

**RET topology**

A single RET device controls each via the designated external AISG connector as shown below

RET device	Band	RF port
1, 2, 3	1695–2700	3-6, 9-12, 15-18

**Array topology**

3 sets of radiating arrays per sector

R1: 698–960 MHz  
 Y1: 1695–2700 MHz  
 Y2: 1695–2700 MHz

Band	RF Port
1695–2700	3–4, 9-10, 15-16
698–960	1–2, 7-8, 13-14
1695–2700	5–6, 11-12, 17-18