

- 20-Port Antenna uniquely optimized for Canada providing all bands in one Macro Antenna Solution
- 21.6" Width for minimal re-zoning impact.
- Beamforming Weights for Band n78 available on request
- Independent 600 & 700 Beam Tilts from Dual-Band Radios for Optimal 5G & 4G optimization freedoms and performance

Electrical Characteristics	4x Ports				4x Ports			4x Ports		8x Ports	
	R1 1	R2 2	R3 1	R4 2	B1 5	B2 7	Y1 9	Y2 11	P1-P4 13-20		
Polarization	2x ±45°				2x ±45°			2x ±45°		4x ±45°	
Operating Frequency (MHz)	617-698 & 746-894				1695-2180			2490-2690		3400-3800	
Peak Gain (dBi)	14.4	15.2	15.4	17.0	17.5	17.9	17.7	16.4	16.5		
Azimuth beamwidth ¹	75±8°	64±8°	61±9°	68±9°	65±6°	61±4°	59±6°	76±7°	67±9°		
Electrical down-tilt range	2°-12°				2°-12°			2°-12°		2°-12°	
Elevation beamwidth ¹	12.9±0.7°	9.8±0.6°	9.2±0.4°	6.9±0.4°	6.7±0.4°	5.6±0.4°	5.3±0.4°	5.8±0.6°	5.5±0.6°		
Gain ¹ (dBi)	13.9±0.5	14.8±0.4	15.1±0.3	16.7±0.3	16.8±0.7	17.3±0.6	17.5±0.2	15.5±0.9	15.7±0.8		
USLS 20°>mainbeam (dB)	14	16	15	13	13	13	15	15	15		
FTB at 180°±30° (dB) ¹	28	26	25	23	22	22	31	23	23		
Isolation X-Polar ¹	32	32	30	30	30	30	30	30	30		
Isolation Inter-Band ¹	26	26	24	24	26	26	24	24	24		
Return loss/VSWR (dB) ¹	14/1.5	14/1.5	14/1.5	14/1.5	14/1.5	14/1.5	14/1.5	14/1.5	14/1.5		
X Polar at 0° (dB) ¹	17	17	15	15	16	16	15	15	15		
Max Power handling/port ¹	250 Watts				250 Watts			100 Watts		100 Watts	
Max Power (all ports)					900 Watts						
PIM (dBc: 2x43dBm) ¹	-153				-153			-153		-145	



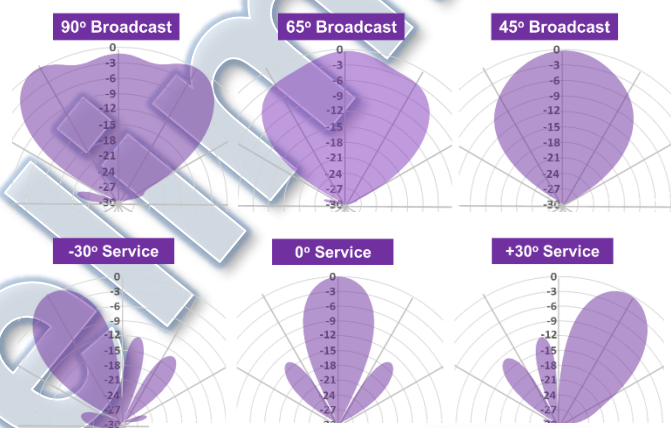
¹ BASTA

Electrical Characteristics, Beamforming (B78/n78)

65° Broadcast Beam	3400-3800
Broadcast Beam Gain (dBi)	17.0
Broadcast Beam beamwidth	65°

Service Beam	3400-3800
0° Service Beam Gain (dBi)	21.0
0° Service Beam beamwidth	25°
30° Service Beam Gain (dBi)	18.1
30° Service Beam beamwidth	29°

Coupling level (Ant-Cal) dB	26 ± 2
Coupling Amp Δ (Ant-Cal) dB	0.7
Coupling Phase (Ant-Cal)	± 9°





Mechanical Characteristics

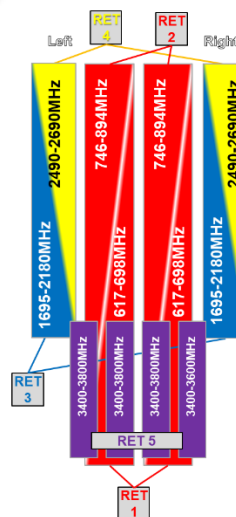
Dimensions (L x W x D)	84.5"(2147mm) x 21.6"(548mm) x 7.8"(197mm)
Weight (excl mounting brackets)	110lbs (50kg)
No. of Connectors	20+(1xCAL) x 4.3-10.0 DIN Female Long Neck
Max Wind Speed	150mph (67m/s)
Wind Load ² @ 150km/h	Front: 227lbs (1010N), Side: 111lbs (495N)
Operating Temperature	-40°C to +65°C

² Equivalent Projected Area and Wind Load derived from simulation measurements.
Equivalent Projected Area assumed C_d=1

Fully Integrated RET Characteristics

Protocol	V 2.0/3GPP (S-RET Type 1)
Surge immunity	IEC 61000-4-5:2005 4KV(AISG PIN)
AISG Data rate	9.6 kbps
RET Connectors	1x 8-Pin DIN Female & 1x 3-Pin DIN Male

Port Layout, Array Configuration and RET ID



RET ID	Ports	Arrays	Freq Range
1	1 2 3 4	R1 R2	617-698MHz
2	1 2 3 4	R3 R4	746-894MHz
3	5 6 7 8	B1 B2	1695-2180MHz
4	9 10 11 12	B3 B4	2490-2690MHz
5	13 - 20	P1 P2 P3 P4	3400-3800MHz



RET 1: 617-698MHz
RET 2: 746-894MHz
RET 3: 1695-2180MHz
RET 4: 2490-2690MHz
RET 5: 3400-3800MHz

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