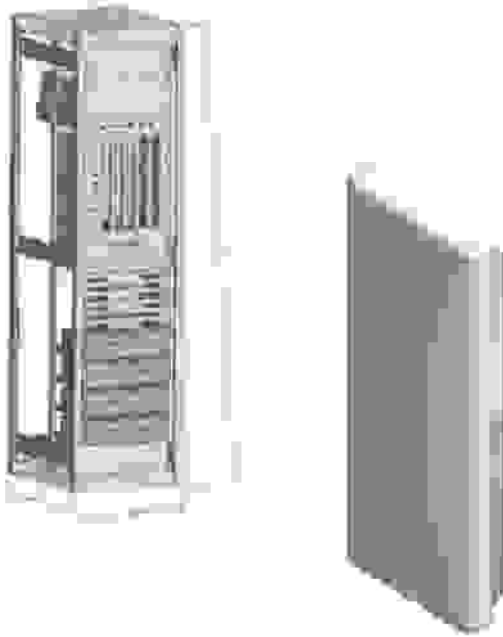




Traffic MatrixTM

Directing our energies for you.

Dual Band Dipole Elements



30° - 240° Variable H. Beams
11° and 5° Elevation Beams
Up to 19.5 dBi Gain

- Dual Band, 3 or 6 Sector
- Three 4 or 6ft Panels & 12 Cables per Site
- Proven Butler Matrix Beam Steering
- 100% Passive TX Circuitry
- Optimizes Traffic Distribution
- Hands-On Manual Control
- Embedded Dual Band Combiners

Patent Pending



Directing our energies for you.

Traffic Matrix™ TM-DB6

Electrical Specifications

Frequency Range	806-900 and 1850-1990 MHz
TX Gain (806-900MHz)	18.0 dBi (with 30 deg H-Beam)
RX Gain (806-900MHz)	17.0 dBi (with 30 deg H-Beam)
TX Gain (1850-1990MHz)	19.5 dBi (with 30 deg H-Beam)
RX Gain (1850-1990MHz)	19.0 dBi (with 30 deg H-Beam)
VSWR	1.4:1 Maximum
Front-to-Back at Horizon	> 25 dB
Upper Side Lobe Suppression	< -18 dB
Elevation Beam (3-dB Points)	11 Deg. and 5 Deg.
Azimuth Beam (3-dB Points)	30 to 240 Degrees
Polarization	Vertical
Impedance	50 Ohms
Power Input Rating (CW)	500 Watts at 800 MHz, 300 Watts at 1900MHz
Intermodulation Specification	<-110dBm at 2x10W

Mechanical Specifications

Input Connector (female)	Four Back Mounted 7/16 DIN (Silver Finish)
Antenna Dimensions	74.1 x 36.2 x 12.1 Inches
Antenna Weight	137 lbs (includes 4 dual band comb.)
Bracket Weight	22.0 lbs
Lightning Protection	Direct Ground
RF Distribution	Silver Plated Brass
Radome	Glass Filled Polyester
Weatherability	UV Stabilized, ASTM D1925
Radome Water Absorption	ASTM D570, 0.45%
Environmental	MIL-STD-810E
Wind Survival	150 mph
Front Wind Load at 100 mph	575 lbf calculated
Front Flat Plate Equivalent	11.7 sq-ft. (c=2)
Mounting Brackets	Fits 2.5 to 3 Inch Schedule 40 Pipe
Mechanical Downtilt Range	0-6 Degrees in 1 Degree Increments
Clamps/Bolts	Hot Dip Galvanized Steel/Stainless Steel

Ordering Information

<u>Model</u>	<u>Options/Description</u>
TM-DB6-3S	Traffic Matrix system, dual band, three 6ft panel antennas, thee sector configuration
TM-DB6-6S	Traffic Matrix system, dual band, three 6ft panel antennas, six sector configuration

Patent Pending



Directing our energies for you.

Traffic Matrix™ TM-DB4

Electrical Specifications

Frequency Range	806-900 and 1850-1990 MHz
TX Gain (806-900MHz)	16.5 dBi (with 30 deg H-Beam)
RX Gain (806-900MHz)	15.5 dBi (with 30 deg H-Beam)
TX Gain (1850-1990MHz)	18.0 dBi (with 30 deg H-Beam)
RX Gain (1850-1990MHz)	17.5 dBi (with 30 deg H-Beam)
VSWR	1.4:1 Maximum
Front-to-Back at Horizon	> 25 dB
Upper Side Lobe Suppression	< -18 dB
Elevation Beam (3-dB Points)	15 Deg. and 7.5 Deg.
Azimuth Beam (3-dB Points)	30 to 240 Degrees
Polarization	Vertical
Impedance	50 Ohms
Power Input Rating (CW)	500 Watts at 800 MHz, 300 Watts at 1900MHz
Intermodulation Specification	<-110dBm at 2x10W

Mechanical Specifications

Input Connector (female)	Four Back Mounted 7/16 DIN (Silver Finish)
Antenna Dimensions	48 x 36.2 x 12.1 Inches
Antenna Weight	~100 lbs (includes 4 dual band comb.)
Bracket Weight	22.0 lbs
Lightning Protection	Direct Ground
RF Distribution	Silver Plated Brass
Radome	Glass Filled Polyester
Weatherability	UV Stabilized, ASTM D1925
Radome Water Absorption	ASTM D570, 0.45%
Environmental	MIL-STD-810E
Wind Survival	150 mph
Front Wind Load at 100 mph	~421 lbf calculated
Front Flat Plate Equivalent	~8.6 sq-ft. (c=2)
Mounting Brackets	Fits 2.5 to 3 Inch Schedule 40 Pipe
Mechanical Downtilt Range	0-6 Degrees in 1 Degree Increments
Clamps/Bolts	Hot Dip Galvanized Steel/Stainless Steel

Ordering Information

<u>Model</u>	<u>Options/Description</u>
TM-DB4-3S	Traffic Matrix system, dual band, three 4ft panel antennas, thee sector configuration
TM-DB4-6S	Traffic Matrix system, dual band, three 4ft panel antennas, six sector configuration

Patent Pending