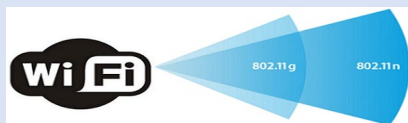




MDS-12 4KW RADOME WI-FI



- **High-Power All-Weather Radar**
- **4 kW 24" Radome Radar**
- **24" Slotted Wave Guide Antenna**
- **Connects via WI-FI to the SI-TEX NavPro Series NavPro Explorer, NavPro 900, NavPro 1200**
- **Features Digital Signal Processing**
- **2-Year SI-TEX Warranty**
- **802.11N WIFI**





MDS-12 4KW RADOME WI-FI

MDS-12 SPECIFICATIONS

ANTENNA UNIT

1. Radiator: Slotted waveguide array
2. Radiator length: 55 cm
3. Horizontal beamwidth: 4°
4. Vertical beamwidth: 25°
5. Sidelobe:
 - Within $\pm 20^\circ$ off mainlobe; less than -18 dB
 - Outside $\pm 20^\circ$ off mainlobe; less than -23 dB
6. Polarization: Horizontal
7. Antenna rotation speed: 24 rpm (± 2)
8. Wind resistance: Relative wind speed 100 knots (51.5 m/s)

TRANSCEIVER MODULE (contained in radome)

1. Transmitting tube: MSF 1421B or MAF1421B
2. Frequency: 9410 MHz ± 30 MHz
3. Peak output power: 4kW nominal
4. Pulselength & pulse repetition rate:
 - 0.08 μ S, 2100 Hz (0.125, 0.25, 0.5, 0.75, 1.5nm)
 - 0.3 μ S, 1200 Hz (1.5, 2, 3nm)
 - 0.8 μ S, 600 Hz (3, 4, 6, 8, 12, 16, 24, 36nm)
5. Warm up time: 1:30 minutes
6. Modulator: FET switching method
7. I.F.: 60MHz
8. Tuning: Automatic or manual
9. Receiver front end: MIC (Microwave IC)
10. Bandwidth:
 - Tx pulselength 0.3 μ S and 0.08 μ S: 25MHz
 - Tx pulselength 0.8 μ S: 3MHz
11. Duplexer: Circulator with diode limiter
12. WIFI module (For KRA-1007W only)

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Standard	IEEE802.11n, IEEE802.11g, IEEE802.11b
Channels	1-11
Frequency range	2.4-2.4835G
Transmit power	15~20dBm