WiBorne, Inc.

Long Range High Performance 5 GHz Antenna

32 dBi 5GHz High Date Rate Dual Polarity Dish Antenna for WISP

The new OA-5032HD dish antennas offered by WiBorne offer the system engineer the best performance available on the market. The antennas meet ETSI EN 302 085 TS4 and EN 300 833 Class 1 specifications, the most stringent specifications for point to point backhaul antennas. The unique feed system is available in a single polarization version which can be mounted for either vertical or horizontal polarization. There is also a dual polarized version available for those systems which can utilize dual polarization to increase bandwidth or implement diversity. An optional fiberglass radome is available for added environmental protection.

- Vertical or Horizontally Polarized
- Wide Band Operation 5150 - 5875MHz for
- Dual Polarity for OFDM or MIMO
- Ultraslow Sidelobes, Meets ETSI Standards
- Extremely Rugged for long service life in extreme environments

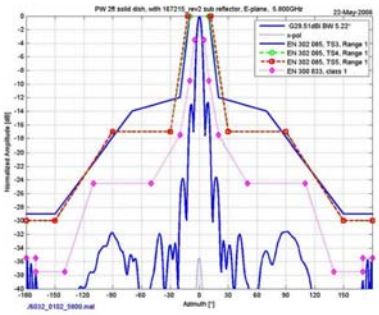
General Specifications

Part Number	32 dBi 5GHz
Type	Special High Gain Directional Antenna
Product Narrative	High Gain, High Data Rate Noise-Reducing *Rejection of Interference* Geometric Spatial Capture of Signal
General Freq.(MHz)	5150 – 5875
Impedance	50 OHM
Available Gain(dBi)	32 dBi
Max. Input Power	100 Watts
Beamwidth (deg.)	4
Sidelobes	ETSI EN 302.326-3 DN1-DN5, ETSI EN 300.833 class 1
Front to Back (dB)	> 38
Cross Pole Suppression	> 30 dB
VSWR	1.5 : 1 (single pol.); 1.8 : 1 (dual pol.)
Mechanical Downtilt	30 deg
Port-to-port isolation	> 30 dB (dual Pol)
Operating Temp.	-40 to +70 deg C
Weight	22 lb (10 Kg)
Pole Diameter (OD)	Min 2" (50); Max 4" (101.6) (inch/mm)
Wind Load (lbs) w/Radome 100MPH 125MPH 100MPH 125MPH	5032HD: 256 5032HD: 400 5032HD: 111 5032HD: 174
Termination	Type N Female Integrated Connector
Dimension (Dia)	36.5" (927mm)

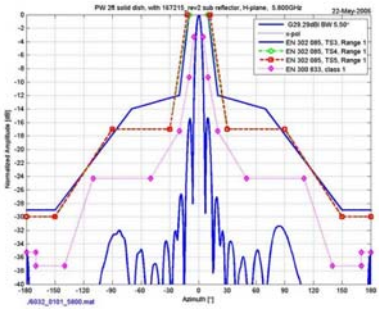
Applications

- 802.11a Wireless Applications
- OFDM Systems
- Cellular or Public safety communications
- Point to Point Backhaul

5.8GHz E-plane



5.8GHz H-plane



Dual Polarized Feed

Optional Radome

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