

ULTRA-WIDEBAND DIRECTIONAL ANTENNA

400 MHz TO 8 GHz

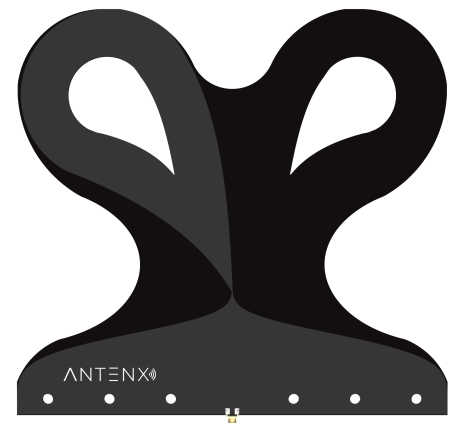
UWB400-D

KEY FEATURES

- Extremely wide bandwidth and consistent directional radiation patterns
- VSWR typically below 2:1 with gain up to 9.6 dBi
- Very thin, lightweight, and compact for a broadband directional antenna operating down to 400 MHz
- Professionally designed and hand-tested by engineers in the United States

APPLICATIONS

- Measurement, test, and experimentation
- Wide bandwidth antenna for software-defined radios (SDRs)
- Cellular (2G, 3G, 4G LTE) and WiFi (2.4 GHz and 5.8 GHz)
- LoRa and the Internet of Things (IoT)
- Electromagnetic surveillance and direction finding
- University research projects (e.g., radar)



UWB400-D

DESIGN SPECIFICATIONS

- Design: Antipodal Vivaldi
- Operating Frequency: 400 MHz to 8.0 GHz
- Polarization: Linear (horizontal/vertical based on orientation)
- Connector: SMA Female
- Body Material: FR-4
- Length: 13.0 in [331 mm]
- Width: 13.8 in [350 mm]
- Height: 0.25 in [6.35 mm] (including SMA connector)

PERFORMANCE SPECIFICATIONS

Parameter	Frequency	Min.	Typ.	Max.	Unit	
VSWR	400 MHz – 650 MHz	2.0	2.3	3.0	–	
	650 MHz – 3.8 GHz	1.1	1.5	2.0		
	3.8 GHz – 8 GHz	1.2	2.0	2.9		
Gain	400 MHz – 8 GHz	3.1	8.0	9.6	dBi	
HPBW	400 MHz – 8 GHz	E-Plane	25	50	84	deg.
		H-Plane	27	40	129	
Input Power	400 MHz – 8 GHz	–	–	10	dBm	
Impedance	–	50			Ω	
Connector	–	SMA (female)			–	

TYPICAL PERFORMANCE

