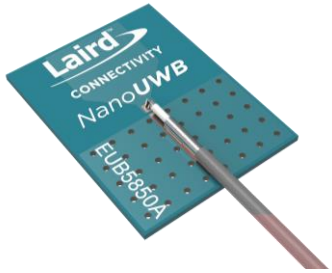
NanoUWB Series

Planar Monopole Antenna
5850MHz-8250MHz

RESHAPING MODERN WIRELESS COMMUNICATION WITH UWB ANTENNA



The Nano UWB Series antenna is the first antenna which has been designed to operate with the Sera NX040 UWB module. Ultra-wideband (UWB) is a short-range, high bandwidth wireless technology which enables applications that require high-speed data transfer or for precise location tracking application. UWB transmits and receives signals across an exceptionally broad frequency range.

The Laird Connectivity NanoUWB antenna features a rigid monopole that supports UWB implementations. The adhesive backed antenna can be used in space sensitive applications with aesthetically pleasing integration and high durability.

The UWB antenna supports UWB channels **5,6,7,8, and 9** and has a continuous bandwidth from 5850 MHz – 8250 MHz. This antenna has applications outside of Laird Connectivity's Sera NX040 UWB module itself.

- **Coverage** – 5850 MHz – 8250 MHz Operation.
- **Performance** – Exceptional efficiency and bandwidth in a compact form factor for various UWB applications.
- **Versatile** – Compact design using rigid PCB with adhesive backing.
- **Industrial** – Operates throughout the entire industrial temperature range.

ELECTRICAL SPECIFICATIONS	
Operating Frequency (MHz)	5850MHz-8250MHz
Ports	Single (1)
VSWR	< 2.5:1
Maximum Peak Gain (dBi)	+3.9dBi
Minimum Peak Gain (dBi)	+1.5 dBi
Efficiency (dB)	> -1.9 dB, (> 64%)
Nominal Impedance (Ohms)	50
Polarization	Linear

MECHANICAL SPECIFICATIONS	
Antenna Type	Planar Monopole
Dimensions – length x width x height – mm (inches)	20 mm x 15 mm x 1.67 mm *size of radiator, does not include coax
Connector Options	MHF4L, MHF1

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)

ORDERING INFORMATION

PART NUMBER	OPERATING FREQ	CABLE LENGTH	CONNECTOR
EUB5850A3S-10MH4L	5850-8250 MHz	100 mm	MHF4L
EUB5850A3S-10MHF1	5850-8250 MHz	100 mm	MHF1

APPLICATION AREAS


Smart Cities


Indoor Positioning / RTLS


Asset Tracking


Factory Automation

Note: This product is currently in development, and this product brief is preliminary. All data and specifications are subject to change

Interested in Laird Connectivity's NanoUWB antenna family?
Visit **https://www.lairdconnect.com/product/nanouwb-series-internal-antennas**