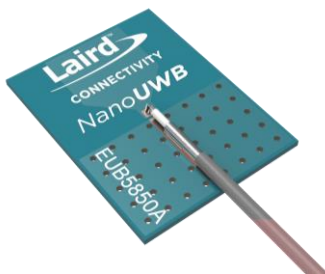


## RESHAPING MODERN WIRELESS COMMUNICATION WITH UWB ANTENNA



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)   | +3.5 dBi           |
| Minimum Peak Gain (dBi)   | +1.5 dBi           |
| Efficiency (dB)           | > -2.4 dB, (> 58%) |
| 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



**Transportation**



**Public Safety**



**Fleet Operators**



**Asset and Vehicle Tracking**

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

Laird Connectivity's products are subject to standard [Terms & Conditions](#).