



# INDUSTRIES

- Asset Tracking
- Location-Based Services
- Commercial Positioning
- Security
- Aids for Daily Living (ADL)

#### **LEARN MORE**

Landing page

# **ULTRA-WIDE BAND (UWB) ANTENNAS**

TE Connectivity (TE) adhesive mount ultra-wide band (UWB) antennas offer an ultra-thin ground plane independent alternative to ceramic chip antennas, increasing the design flexibility by mounting the antenna to the enclosure of your device. These devices can enable for precise indoor positioning and tracking applications, access control, and contract tracing. With the ability to locate objects to/within 10cm, UWB antennas provide a powerful solution in a small package for low and high band UWB channels 1 to 9 (3-8.5 GHz).

#### **KEY BENEFITS**

- Broadband antenna design covers the majority of ultra-wide band frequency ranges ideal for location position applications
- High efficiency design helps reduce overall power consumption to prolong enddevice battery life
- Small form factor, enclosure mounting, and omni-directional operations allow for a wide variety of design options

#### **PRODUCT FEATURES**

- Smaller size support commonly used UWB channel 5 (6.5 GHz) and channel
  9 (8 GHz)
- With frequency ranges of 3.1 GHz to 8.5 GHz, current product versions cover the most common bands enabling support for industry leading UWB transceivers
- Various standard cable lengths available
- · Low implementation costs

## **ULTRA-WIDE BAND (UWB) ANTENNAS**

#### **PART NUMBERS**

Part Number	Part Description
2108965-1	FPC ANT, MHF, 50mm, UWB 6~8.5 GHz
<u>2108965-2</u>	FPC ANT, MHF, 100mm, UWB 6-8.5 GHz
<u>2108965-3</u>	FPC ANT, MHF, 150mm, UWB 6~8.5 GHz
<u>2108965-4</u>	FPC ANT, MHF, 200mm, UWB 6~8.5 GHz
<u>2108965-5</u>	FPC ANT, MHF 4L, 50mm, UWB 6-8.5 GHz
<u>2108965-6</u>	FPC ANT, MHF 4L, 100mm, UWB 6~8.5 GHz
<u>2108965-7</u>	FPC ANT, MHF 4L, 150mm, UWB 6~8.5 GHz
<u>2108965-8</u>	FPC ANT, MHF 4L, 200mm, UWB 6~8.5 GHz
<u>2108971-1</u>	FPC ANT, MHF, 50mm, UWB 3~8.5 GHz
2108971-2	FPC ANT, MHF, 100mm, UWB 3-8.5 GHz
<u>2108971-3</u>	FPC ANT, MHF, 150mm, UWB 3-8.5 GHz
<u>2108971-4</u>	FPC ANT, MHF, 200mm, UWB 3~8.5 GHz
<u>2108971-5</u>	FPC ANT, MHF 4L, 50mm, UWB 3-8.5 GHz
<u>2108971-6</u>	FPC ANT, MHF 4L, 100mm, UWB 3~8.5 GHz
<u>2108971-7</u>	FPC ANT, MHF 4L, 150mm, UWB 3~8.5 GHz
<u>2108971-8</u>	FPC ANT, MHF 4L, 200mm, UWB 3~8.5 GHz

### te.com

© 2022 TE Connectivity. All Rights Reserved.

TE, TE Connectivity, TE connectivity (logo) and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

07/22

