

ANT-868-USP410 ✓ ACTIVE

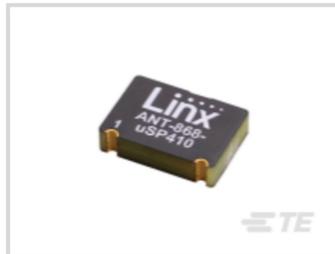
TE Internal #: L9000152-01

PCB Antenna, Single Band, LPWAN / LoRaWAN, Internal /Embedded Mount, Surface Mount, Solder, Omnidirectional, Single Port, 0 < 3 dBi Peak Gain

[View on TE.com >](#)



Antennas



Communication Protocol: **LoRaWAN, LPWAN, Wi-Fi**

Mounting Location: **Internal/Embedded**

Mounting Type: **Surface Mount**

Frequency Category: **862 – 870**

Antenna Type: **PCB**

Features

Product Type Features

Antenna Termination	Solder
Antenna Product Type	Antenna

Configuration Features

Antenna Style	PCB
Mounting Location	Internal/Embedded
Antenna Type	PCB
Band Type	Single Band
Port Configuration	Single Port

Electrical Characteristics

Impedance	50 Ω
VSWR (Max)	<2:1

Signal Characteristics

Frequency Band	868 MHz
Gain (Max)	.7 dB
Frequency Category	862 – 870
Peak Gain	0 < 3 dBi

Body Features

Product Weight	.6 g [.02116 oz]
----------------	------------------



Mechanical Attachment

Polarization	Linear
Mounting Type	Surface Mount

Dimensions

Product Width	9.14 mm[.36 in]
Product Length	13.2 mm[.52 in]
Product Height	2.9 mm[.11 in]

Operation/Application

Directionality	Omnidirectional
----------------	-----------------

Industry Standards

Communication Protocol	LoRaWAN, LPWAN, Wi-Fi
Primary Application	LoRaWAN, LPWAN

Packaging Features

Packaging Method	Reel/Carton
------------------	-------------

Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
Solder Process Capability	Not reviewed for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous

materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



TE Part # ANT-868-JJB-ST
Antenna Mini Straight 868MHz THM



TE Part # ANT-868-PW-LP
Antenna 1/4 Wave 868MHz Screw #6



TE Part # ANT-868-CPA
Antenna CER Patch 25mm Sq 868MHz Adh



TE Part # ANT-868-CHP-T
Antenna Chip T&R 868MHz SMT



TE Part # ANT-868-HESM
Antenna 1/4 Wave Coil 868MHz SMT



TE Part # ANT-868-JJB-RA
Antenna Mini R-Angle 868MHz THM

Customers Also Bought



TE Part # ANT-433-USP410
Antenna uSP PCB RPC 410 433MHz SMT T&R



TE Part # ANT-915-USP410
Antenna uSP PCB RPC 410 915MHz SMT T&R



TE Part #1-641964-1
02P UMNL HDR ASSY POL BLK



TE Part #641968-1
04P UMNL PIN HDR ASSY POL 94VO



TE Part #826634-5
05P MODU 2 PIN HDR.



TE Part #1-1879216-2
CPF 0402 64K9 0.1% 25PPM 1K RL



TE Part #3-1879216-4
CPF0402 180K 0.1% 25PPM 1K RL



TE Part #2-1879354-9
RR03 5% 4R7 AMMO



Documents

Product Drawings

[Antenna uSP PCB RPC 410 868MHz SMT T&R](#)

English

CAD Files

[3D PDF](#)

3D

[Customer View Model](#)

[ENG_CVM_CVM_L9000152-01_B.3d_stp.zip](#)

English

[Customer View Model](#)

[ENG_CVM_CVM_L9000152-01_B.2d_dxf.zip](#)

English

[Customer View Model](#)

[ENG_CVM_CVM_L9000152-01_B.3d_igs.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[Embedded 868 MHz LPWA Antenna](#)

English