

Wireless Hazardous Area ATEX / IECEx Solution

Overview

TCi complete hazardous area solution covering Zone 1 / 21 & Zone 2 / 22. This affordable package is suitable for most leading vendors Access Points. The Omni directional antenna can be supplied to cover 421MHz up to 6GHz.

Part Numbers :

TCATEXSOL202	Omni Directional 2x2 MIMO Direct Mount
TCATEXSOL302	Omni Directional 3x3 MIMO Direct Mount
TCATEXSOL402	Omni Directional 4x4 MIMO Direct Mount

Mechanical Characteristics

Ambient Temp.	-40°C - +60°C
Protection Degree	IP66
Certificate Ref.	IECEX BKI 09.0005
Rules of Compliance	IEC 60079-0 IEC60079-1 IEC 600979-11 IEC60079-31

Body/Cover	Marine grade copper free aluminium light alloy
Screws	Stainless Steel
Internal Mounting Plate	Hot dip galvanised steel / aluminium
Fixings	Fixing lugs AL UNI EN 1706:1999 - galvanised steel stirrups sp. 10mm
Hinges	On the long side - cast on enclosure body and cover



2.4 / 5GHz Dual Band Hazardous ATEX / IECEx Antenna

Part Number: TCATEX110DM 0.5 Metre Lead

4.5 / 7 dBi Omnidirectional antenna designed to operate with all enterprise class 802.11 access points. This aesthetically pleasing antenna will support demanding ATEX/IECEX applications in next generation IEEE 802.11 wireless communication systems. Mounts directly to enclosure.

European ATEX Directive 2014/34/EU Certificate Number SIRA 09ATEX3251X and IECEx SIR 10.0026X

Specification:

Electrical	
Frequency	2400 – 2500MHz / 5150 - 5875MHz
Bandwidth	100 MHz / 700MHz
Impedance	50 Ω
VSWR	<2:1
Gain	+4.5 / 7dBi
Maximum Power	2w watts continuous
Connector	AS Required
Radiating Element	PCB:
Horizontal	360°
Vertical	30/15°

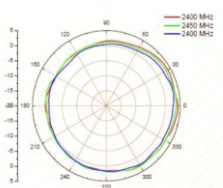
Mechanical	
Length	210mm
Diameter	38 mm max.
Weight	365 gms
Tube material	PTFE
Colour	White
Base	PTFE
2002/95/EC (RoHS)	Compliant
Operating temperatures	-30°C to + 60°C
Storage temperatures	-30°C to + 60°C



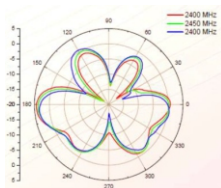
The ATEX/IECEX certification marking are as follows:
Ex e IIC T6 Gb
Ex tb IIIC T85°C Db Ip66
(Ta = -40°C to 60°C)
And for ATEX certified equipment only:
Part Number: TCATEX110DM (0.5 metre lead)



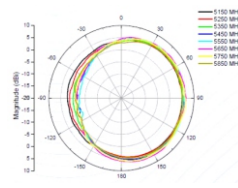
It is completely weatherproof and is therefore suitable for either inside or outside mounting.



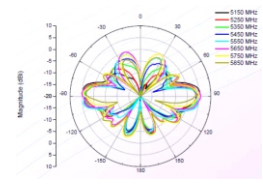
Horizontal 2.4Ghz



Vertical 2.4Ghz



Horizontal 5.0Ghz



Vertical 5.0Ghz

