



CTX-SERIES HAZARDOUS AREA EXPLOSION PROOF ANTENNAS



- 900 MHz, 2.4 GHz & 5.0 GHz ISM Band, 802.11a,b,g,n Wi-Fi
- Dual band AMPS 824 ~ 896 MHz & PCS (GPRS) 1850 ~1990 MHz
- 1600 MHz Iridium Satellite
- UL listed & ATEX, IECEx certified
- Internal seal fitting
- Custom frequencies available
- TNC connector
- Mounting: ¾" NPT Explosion Proof Housing Hub or ¾" pipe and EP Conduit Union Fitting
- Rugged Nickel Plated Brass mounting base



*Class I, Div 1,
Zone 1
Groups, C & D*



*ATEX
ZONE 1*

IECEx

The CTX-Series of antennas are designed for use in “Hazardous-Classified” and Industrial-Hardened applications. The antennas are omni-directional with 2.0 dBi gain and designed for flexible mounting on a variety of explosion proof housings or on ¾” pipe with a ¾” NPT pipe thread. The mounting base is made of heavy nickel-plated brass with an integrated TNC coaxial connector for ease of installation. The radome is optimized for rugged industrial applications while maintaining maximum radio frequency transmission and reception efficiency. The antenna may be mounted up to 18” away from the enclosure within a hazardous location without an additional seal.

- Hazardous tank level monitoring
- Offshore platforms
- Chemical processing
- Power plants
- Utility systems where explosive gases may be present
- PCS, AMPS, GPRS, 802.11
- Wireless bridges
- Wireless Ethernet
- Hazardous area computers
- Patented design

Typical Installation



CTX-SERIES



RUGGED INDUSTRIAL RADOME



INTEGRAL FLAMEPROOF SEAL



3/4" NPT THREAD



TNC CONNECTOR*

Specifications

Impedance: 50 Ω

Gain: 2.0 dBi (CTX-1600-TF 2dBic @ Zenith)

Maximum power: 2 Watts

Connector type: TNC female *(2.4 GHz has reverse polarity female TNC)


Mounting base: 3/4" NPT

Impact rating: 7 joules

Weight: 1.06 lbs., 0.48 kg

Maximum length including TNC connector: 5.85", 148.6mm, Max. diameter 2.02", 51.3mm

Certifications

UL listed for the following locations: Class I Div 1, Groups C, D $-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$, Class I Zone 1 AEx d IIB T5, Ex d IIB T5 $-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$. CE 0539  IICG Ex d IIB T5, DEMKO 08 ATEX 0727941X, IECEx (see documents 35105 and 35106 for safe installation)

Ordering Information *(other frequencies available, contact factory for details)*

<u>Part Number</u>	<u>Frequency</u>
CTX-800-TF	Dual band 824-896 MHz & 1850-1990 MHz
CTX-801-TF	Dual band 801-940 MHz & 1901-2000 MHz
CTX-900-TF	915 MHz
CTX-1600-TF	1600 MHz (Iridium Satellite 1616MHz to 1626MHz)
CTX-2400-TR	2.4 GHz
CTX-2402-TR	Dual band 2.4 GHz & 5 GHz (802.11n)
CTX-5000-TF	5.0 GHz

Note: See CTM series for M20 mounting thread

