



CTX/CTM-1600-TF HAZARDOUS AREA EXPLOSION PROOF IRIDIUM SATELLITES



- Iridium: 1,616MHz to 1,626MHz
- UL listed & ATEX, IECEx certified
- Internal seal fitting
- TNC Jack connector
- Mounting: 3/4" NPT or M20
- Rugged Nickel Plated Brass mounting base
- Industrial temperature range $-40^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$



LISTED

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



**ATEX / IECEx
ZONE 1**

The CTX/CTM-1600-TF antennas are designed for use in "Hazardous-Classified" and Industrial-Hardened applications. The antenna operates in the Iridium band 1,616 MHz to 1,626 MHz. The antennas have a typical gain of 2.8 dBic and may be mounted close to other antennas. With its built in Class1 division 1 seal it can be mounted directly on an approved enclosure or 3/4" rigid metal conduit. The mounting base is made of heavy nickel-plated brass with an integrated TNC jack coaxial connector for ease of installation. The radome is optimized for rugged industrial applications while maintaining maximum radio frequency transparency. The antenna may be mounted up to 18" away from an enclosure within a hazardous location without an additional seal. The CTX series has a 3/4" NPT mount and the CTM series has a metric M20 mount.

- Hazardous tank level monitoring
- Offshore platforms
- Chemical processing
- Power plants
- Utility systems where explosive gases may be present
- Hazardous area computers
- Ships
- Trains
- Alarms
- Patented design

Typical Installation
(enclosure not included)



CTX/CTM-1600 SERIES



← **RUGGED INDUSTRIAL RADOME**

← **INTEGRAL FLAMEPROOF SEAL**

← **3/4" NPT THREAD (CTX) OPTIONAL M20 (CTM)**

← **TNC JACK CONNECTOR**

Specifications

Impedance: 50 Ω

Gain: 2.8 dBic (typical)

VSWR: 1.5 (max)

Polarization: RHCP

Maximum power: 2 Watts

Antenna type: passive

Connector type: TNC Jack (female)

Mounting base: CTX-1600-TF 3/4" NPT; CTM-1600-TF M20

Impact rating: 7 joules

Weight: 1.06 lbs., 0.48 kg

Operating temperature range: -40°C to +85°C

Certifications

UL LISTED FOR THE FOLLOWING LOCATIONS: CLASS I DIV 1, GROUPS C, D 40 C \leq Ta \leq 85 C, CLASS I ZONE 1 AEx d IIB T5, Ex d IIB T5 Gb X 40 C \leq Ta \leq 85 C. ATEX CERTIFIED FOR THE FOLLOWING LOCATIONS: CE0539 Ex II2G, Ex d IIB T5 Gb, 40 C \leq Ta \leq 85 C, DEMKO 08 ATEX 0727941 X. IECEx CERTIFIED FOR THE FOLLOWING LOCATIONS: Ex d IIB T5 Gb UL 12.0061X 40 C \leq Ta \leq 85 C.

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

<u>Part Number</u>	<u>Frequency</u>	<u>Mounting Base</u>
CTX-1600-TF	1,616 MHz through 1,626 MHz	3/4" NPT Thread
CTM-1600-TF	1,616 MHz through 1,626 MHz	M20 Thread

