

Iridium Certus™ BCX

Part #: BCX 9810

Data Sheet

The Iridium Certus™ BCX (Broadband Core Transceiver) is the core digital and radio frequency (RF) module of the Iridium Certus® satellite communications service for a variety of service speed classes. Integrated with Broadband Application Electronics (BAE), antenna (BAA), and appropriate amplifiers, the BCX provides multiple data speed rates, three simultaneous high-quality voice calls, and much more. Uniquely designed to support Iridium Certus L-Band services and backed by unmatched network quality, this transceiver delivers cost-effective satellite voice and data communications for single or multi-channel communication platforms for maritime, land mobile, and aviation markets.

BENEFITS

Highly Mobile - The Iridium® satellite network is built for mobility - providing communications and connectivity on the move, anywhere on the planet allowing vehicles and personnel to remain in contact while operating in remote areas without having to stop and set up network access.

Multi-Service Connectivity - Through a multi-service communication and connectivity service platform, Iridium Certus will offer high-quality voice, IP Data and Streaming Data.

Best Value - Iridium Certus offers visibility and predictability of data usage, as well as seamless broadband connectivity that can be configured to automatically switch between the Iridium network and local infrastructure.

Reliable Coverage - Iridium Certus is enabled by a network of 66 Low-Earth Orbit mobile satellites that provide service anywhere on the planet in all weather conditions without compromise.

Low Latency - The Iridium satellites in Low-Earth Orbit (800 km), enable signals travel in 1/40 the time compared to geostationary satellites (36,000 km), resulting in low-latency, high-speed, always-on connections.

Optimal Signal Delivery - Low frequency L-Band signals can penetrate clouds, fog and rain.

FEATURES

Background IP Data

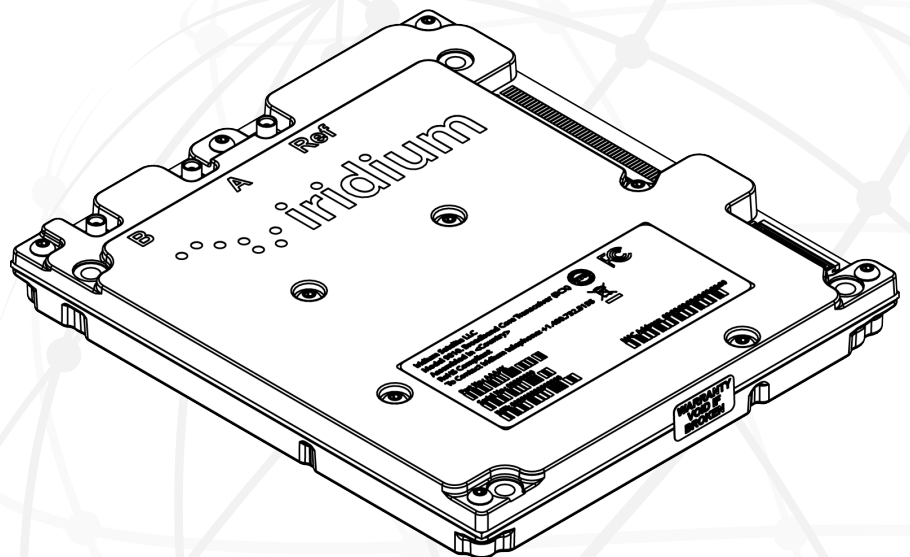
- Iridium Certus® 100 (up to 88 Kbps)
- Iridium Certus® 200 (up to 176 Kbps)
- Iridium Certus® 350 (up to 352 Kbps)
- Iridium Certus® 700 (up to 704 Kbps)

Streaming IP Data Capable

High Quality Voice

Messaging

Safety Services



MECHANICAL SPECIFICATIONS

Size 5.93 x 5.26 x 0.72 in (150.6 x 133.6 x 18.2 mm)

Weight Less than 1 lb (0.5 Kg)

RF PARAMETERS

Frequency Range 1616 to 1626 MHz

POWER PARAMETERS

Input Voltage 12 VDC +/- 10%

DC Power Consumption Monitor Mode 12.6 W
Low Data Rate 14.7 W
High Data Rate 17.4 W

ENVIRONMENTAL SPECIFICATIONS

Temperature Ranges Operating: -40 °C to +75 °C
Storage: -40 °C to +85 °C

Humidity Storage: ≤ 93% RH

Shock 3 half sine pulse shocks in each axis with a peak amplitude of 10 g and pulse duration of 11 ms

REGULATORY STANDARDS AND COMPLIANCE

United States of America

FCC Compliant
(CFR47 Parts 2 & 15)

Australia / New Zealand

AS/NZS 60950.1:2015
Regulation 1907/2006

European

Reach Compliant
RoHS Compliant
ETSI EN 301 489-1 V 2.1.0 (2016-04): § 8.2, 9.2
ETSI EN 301 489-20 V 1.2.1 (2002-11)
EU Directives 2002/95/EC and 2011/65/EC
EN 60950-1:2006/A11:2009 A12:2011/AC:2011
A2:2013

