

ICON ST-0

Satellite Terminal - Datasheet

Data communication via satellite in real time, anywhere under the sky.

Enable reliable connectivity and IoT applications, even in the most remote locations.



- Versatile, simple and safe
- Easy to install and integrate
- Truly global coverage
- Two-way satellite communication

Effortech's ICON ST-0 satellite terminal is a versatile device capable of transmitting and receiving satellite messages from anywhere in the world, thus enabling the tracking, control and remote asset monitoring even in the most isolated regions. Developed for installation in external environments, ideal for composing hybrid or purely satellite solutions in the most varied segments such as telemetry, fleet management, cargo monitoring, agribusiness, Utilities, among others.

The ICON ST-0 provides a bidirectional interface via satellite and guarantees communication in a simple and secure and secure way.

Fast implementation

The increasingly competitive communications environment requires rapid development. Effortech has the mission to reduce effort for the implementation of IoT applications. For this reason the ICON ST-0 comes with the objective of reducing costs, uncertainties and complications associated with hardware development, manufacturing and certification of a specific satellite terminal, which facilitates implementation and accelerates the launch of customized solutions for the most diverse segments

True connectivity and global coverage

ICON ST-0 offers true coverage on 100% of the planet through the use of Iridium's low-orbit satellite constellation network, ensuring reliable and continuous global communication for the most critical operations, even in the most remote locations, regardless of the segment. By taking advantage of its bidirectional satellite technology, it is possible to send information and control assets remotely, without the need for human interference.

Satellite communication

- Satellite service: bidirectional, truly global, Iridium NEXT SBD Network
- Uplink message: 340 bytes
- Downlink message: 270 bytes
- Typical latency: <15 seconds
- Frequency: 1616 MHz to 1626.5 MHz
- Duplexing method: TDD
- Multiplexing method: TDMA / FDMA
- Gain: up to 3dB

Certifications

- Regulatory: Anatel
- Others: Approval of Iridium

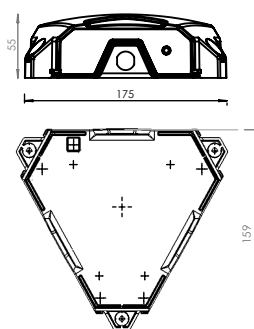
Supply

Operating Voltage: 9 to 32VDC

- Load Dump Protection (ISO 7637-2: 2004 Pulse 5)
- Protection against polarity inversion
- Consumption
 - Stand by (data reception): ~ 50mA
 - Transmission: average 150mA, peak 2A

Dimensions

- 17.5 x 15.9 x 5.5 cm
- Weight: 376 g
- Box dimensions: 23.5 x 19.5 x 6.5 cm



Interfaces

- RS-232 serial communication
- AT command interface

Environment

- Operating temperature: -20 to + 85C
- Intake of dust and water: IP67