

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









SPECIFICATION

Part No: STS.01.A.0115FB

Product Name: Spartan Iridium Transceiver Antenna System

Features: High Performance outdoor antenna

White Housing

Cables and Connectors Customizable

IP67 & IP69K Waterproof

ISO16750 Automotive Reliability Tested

115mm Multi-Conductor Cable

Stripped 37mm, Tin 8mm

Dims: 145.6*147.5*33.35mm

RoHS Compliant







1. Introduction

The Spartan STS.01 Iridium Transceiver consists of an advanced Taoglas Iridium certified patch antenna and Iridium 9602 transceiver with RS-232 interface, all enclosed in a robust, IP67 waterproof through-hole mount enclosure.

The Iridium satellite network offers truly global M2M service with the lowest latency in the industry — extending the value of intelligent data far beyond the 10% of the Earth serviced by terrestrial networks.

Get reliable connectivity for your devices as the Iridium global satellite constellation operates at full capacity even in circumstances when terrestrial networks may run into challenges

Certified by Iridium, the Spartan STS.01 supports short burst data with a maximum mobile originated message size of 340 bytes and a maximum mobile terminated message size of 270 bytes. There is no SIM card required.

Typical applications include

- International trucking and haulage
- Remote asset monitoring
- Maritime communications
- Mining, oil and gas infrastructure monitoring
- Emergency operations
- Business continuity

The product features major advancements in reliability over existing systems, delivering:

- One multi-conductor cable required.
- Quick and Simple Installation
- Higher radio performance (no RF coax losses)
- Low power consumption
- Full protection against load dump
- ISO16750 Automotive Reliability Tested

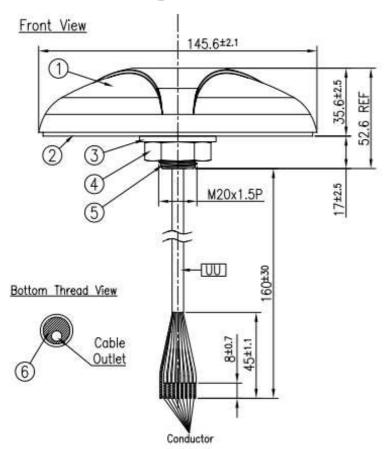


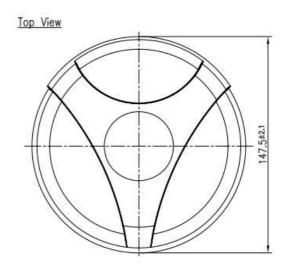
2. Features

| SYSTEM FEATURES | | | |
|---|--|--|--|
| Integrated Iridium 9602 Transceiver | Integrated power regulation with 8-32V input voltage range | | |
| 3-Wire RS-232 interface | Transient and reverse voltage protection | | |
| Enable signal line | Tamper detection | | |
| Network status line | Load Dump Protection with No User Intervention (Class C) | | |
| MECHANICAL | | | |
| Enclosure: White, toughened ABS-Polycarbonate Alloy UV stabilized | Cable and Connector may be customized | | |
| IP67 Waterproof, IP69K Pressure Washing Safe | Weight: 670g | | |
| Dimensions: | 145mm x 145mm x 90mm | | |
| ENVIRONMENTAL RATINGS & CERTIFICATIONS | | | |
| Temperature: -40° to +85° C (operating) -40° to +85° C (storage) | Fully certified FCC, CE, IC, Iridium | | |
| Humidity: 95% R.H. @ 50° C non-condensing | Power: 8-32V Input Range | | |
| | 12W peak consumption during transmit @ 12V | | |
| | 1.5W average consumption during transmit @ 12V | | |
| | 1.5W peak consumption during receive/idle @ 12V | | |
| | 90 mW average consumption radio off mode @ 12V | | |
| Load Dump: ISO 16750-2 (12V and 24V system) | ESD: ISO 10605 | | |
| | Contact 15kV, Air 15kV | | |
| Supply Immunity: ISO 16750-2 | | | |
| ISO 7637-2 | | | |
| ISO 7637-3 | | | |
| (12V and 24V system) | | | |



3. Drawing





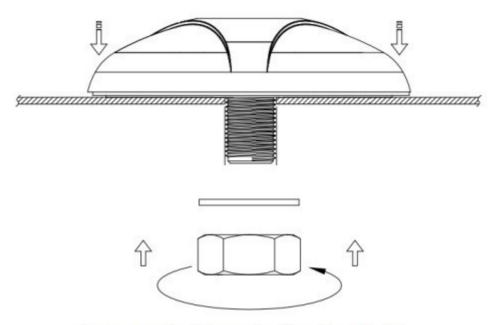
See table for Conductor detail

| | Name | Material | Finish | QTY |
|----|-------------------------|-----------------|-----------|-----|
| 1 | Housing Spartan ST | PC + ABS | White | 1 |
| 2 | Closed Cell Foam | 3M 9448+CR-4305 | Black | 1 |
| 3 | Nut_M20x1.5Px10H Cut | Steel | Ni Plated | 1 |
| 4 | Washer Nut | Steel | Ni Plated | 1 |
| 5 | Metal Base ST | Zinc Alloy | Ni Plated | 1 |
| 6 | Cable Rubber | Silicone Rubber | Black | 1 |
| UU | Cable Type | Multi-Conductor | Black | 1 |

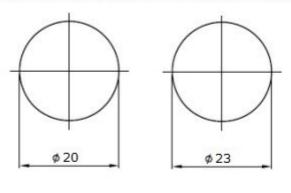
| Conductor Color | Conductor Function |
|--------------------|---|
| Red | Power Input (+8-32V) |
| Black | Power and Signal GND |
| Orange | On/Off Control (>1.4v Input to enable Iridium module) |
| Blue | Network Available (+3.3V Output) |
| Green | RX (Relative to Antenna Module) |
| Yellow | TX (Relative to Antenna Module) |
| Gray | Tamper Detect |
| White | Chassis Ground |
| Drain Wire | Internally connected to Chassis Ground |



4. Installation



Recommended Torque for Mounting 29.4 N·m Maximum Torque for Mounting 39.2 N·m



Thread Diameter

Recommended Mounting Hole

Unit: mm

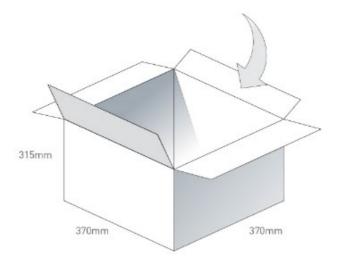


5. Packaging

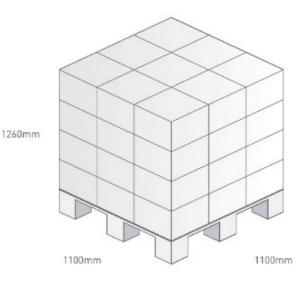
1pc STS.01.B.0115FB in PE bag per small box Box Dimensions - 173*170*145 mm Weight - 800g



8 small boxes in one carton Carton Dimensions - 370*370*315 mm Weight - 6.9Kg



Pallet Dimensions 1100*1100*1260mm 36 Cartons per Pallet 9 Cartons per layer 4 Layers





Taoglas makes no warranties based on the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. Taoglas reserves all rights to this document and the information contained herein.

Reproduction, use or disclosure to third parties without express permission is strictly prohibited.

Copyright © Taoglas Ltd.