IRIDIUM®
PRODUCTS

PERSONAL COMMUNICATION DEVICES

Iridium 9555

MANUFACTURER Iridium Communications Inc.   **MODEL #** 9555

Iridium 9555 is a compact, light, and basic satellite phone that is easy to use right out of the box. Iridium 9555 enables high quality voice and light data features that leverage our global network of satellites.

FEATURES

- Integrated Speakerphone
- Internally Stowed Antenna
- Headset & Handsfree Capability
- Reduced Physical Footprint (Very Compact)
- Two-way SMS & Short Email Messaging Capabilities
- Mini USB Data Port & Support for Mobile Tethering
- Intuitive User Interface for Out of the Box Functionality

TECHNICAL SPECIFICATIONS

Size / Dimensions	143 x 55 x 30 mm
Weight	266 g
Talk Time	Up to 4 Hours
Standby Time	Up to 30 Hours
Durability	Industrial-Grade
Ingress Protection	IP65
Operating Temperature	-10°C to +55°C
Data Speed	2.4 Kbps

SERVICES

✓ Voice	✗ GEOS / SOS	✓ Narrowband
✓ SMS	✗ Location-Based Services (LBS)	✗ Midband
✗ Push-to-Talk	✗ Short Burst Data® (SBD®)	✗ Broadband

APPLICATIONS

- **Crew Welfare:** Fishing, Merchant
- **First Response, NGOs & IGOs:** Humanitarian & Emergency Response
- **Lone Worker:** Agriculture, Forestry, Construction, Mining, Energy, Utilities, Heavy Equipment, Transportation
- **Operational Communications:** Rotorcraft
- **Passenger Communications:** Business Aviation, Maritime Leisure, Rotorcraft
- **Remote Communications:** Agriculture, Forestry, Construction, Mining, Heavy Equipment, Recreation Outdoors, Recreation Travel, Scientific Research, Transportation, Energy, Utilities

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Iridium Extreme®

MANUFACTURER Iridium Communications Inc.   **MODEL #** 9575

Iridium Extreme® combines military-grade toughness with robust features including global voice calling and SMS, online tracking services, and a SOS button with two-way communications for emergency response.

FEATURES

- Military-grade Design for a Tough & Rugged Satellite Handset: Jet-water, Shock & Dust Resistant
- One-touch SOS Button & Two-way Connectivity for Emergency Assistance
- GPS-enabled Location-based Services with the Ability to Share Your Exact Location Coordinates
- Real Time Tracking Solution to Increase Operational Efficiencies, Improve Response Times or Simply to Keep Connected with Friends & Family
- Comes in Three (3) Colors: Standard, Sporting Camo* & Safety Yellow*

TECHNICAL SPECIFICATIONS

Size / Dimensions	140 x 60 x 27 mm
Weight	247 g
Talk Time	Up to 4 Hours
Standby Time	Up to 30 Hours
Durability	Military-Grade Ruggedness (MIL-STD 810F)
Ingress Protection	IP65
Operating Temperature	-10°C to +55°C
Data Speed	2.4 Kbps

SERVICES

- ✓ Voice
- ✓ SMS
- ✗ Push-to-Talk
- ✓ GEOS / SOS
- ✓ Location-Based Services (LBS)
- ✓ Short Burst Data® (SBD®)
- ✓ Narrowband
- ✗ Midband
- ✗ Broadband

APPLICATIONS

- **Crew Welfare:** Merchant
- **First Response, NGOs & IGOs:** Humanitarian & Emergency Response
- **Lone Worker:** Agriculture, Forestry, Construction, Mining, Energy, Utilities, Heavy Equipment, Transportation
- **Passenger Communications:** Business Aviation, Maritime Leisure, Rotorcraft
- **Remote Communications:** Agriculture, Forestry, Construction, Mining, Heavy Equipment, Recreation Outdoors, Recreation Travel, Scientific Research, Transportation, Energy, Utilities
- **Safety Services:** Maritime Leisure

Iridium Extreme® PTT

MANUFACTURER Iridium Communications Inc.   **MODEL #** 9575P

Iridium Extreme® PTT is the device for global reliable group communications. Only Iridium can deliver the power of fast, simple, and secure group communication with the toughest, most feature-rich Push-to-Talk-enabled satellite handset on the market.

FEATURES

- PTT Mode Enables Teams to Communicate Instantly with the Push of a Button
- Use On-foot, In-vehicle, or In-building with Available Accessories
- Push-to-Talk Communications are Secure & Kept Private with AES-256 Encryption
- Talkgroup Configuration Can be Adjusted Over-the-air as Needed by Administrators
- Rugged Design for Harsh Environments, Including Jet-water, Shock & Dust Resistant (IP65)

SERVICES

✓ Voice	✓ GEOS / SOS	✓ Narrowband
✓ SMS	✓ Location-Based Services (LBS)	✗ Midband
✓ Push-to-Talk	✓ Short Burst Data® (SBD®)	✗ Broadband

APPLICATIONS

- **Aviation Solutions:** Push-to-Talk
- **First Response, NGOs & IGOs:** Humanitarian & Emergency Response
- **Government:** Interoperability Solutions, Push-to-Talk
- **Operational Communications:** Fishing
- **Remote Communications:** Construction, Mining, Transportation, Energy, Utilities

TECHNICAL SPECIFICATIONS

Size / Dimensions	140 x 60 x 32 mm
Weight	268 g
Talk Time	**Phone Mode:** Up to 6.5 Hours **PTT Mode:** Up to 5 Hours
Standby Time	**Phone Mode:** Up to 54 Hours **PTT Mode:** Up to 16.5 Hours
Durability	Military-Grade Ruggedness (MIL-STD 810F)
Ingress Protection	IP65
Operating Temperature	-10°C to +55°C
Data Speed (in Phone Mode)	2.4 Kbps

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Iridium GO!®

MANUFACTURER Beam Communications   **MODEL #** 9560

Iridium GO!® provides global voice calling and text messaging solutions for your smartphone, as well as enhanced data capabilities offered through optimized apps to meet your unique needs. Stay connected and in touch wherever you are, whenever you need, with the devices you rely on every day.

FEATURES

• Portable Device is Small Enough to Fit in Your Pocket & Tough Enough to Withstand the Elements (IP65)

• 100-foot Radius Wi-Fi Connection Enables Connectivity for Up to Five (5) Mobile Devices

• Built-in SOS Capability with Included Emergency Monitoring & Real-time GPS Tracking

• Apps Optimized for Voice Calling, SMS Texting, Email, Social Media, Weather Monitoring & More

• Photo & File Sharing Capability for Staying Connected to Family & Work

TECHNICAL SPECIFICATIONS

Size / Dimensions	114 x 82 x 32 mm
Weight	305 g
Talk Time	Up to 5.5 Hours
Standby Time	Up to 15.5 Hours
Durability	Military-Grade Ruggedness (MIL-STD 810F)
Ingress Protection	IP65
Operating Temperature	-10°C to +50°C
Data Speed	2.4 Kbps

SERVICES

✓ Voice   ✓ GEOS / SOS   ✓ Narrowband

✓ SMS   ✓ Location-Based Services (LBS)   ✗ Midband

✗ Push-to-Talk   ✓ Short Burst Data® (SBD®)   ✗ Broadband

APPLICATIONS

• **Crew Welfare:** Fishing

• **First Response, NGOs & IGOs:** Humanitarian & Emergency Response

• **Government:** Land

• **Lone Worker:** Agriculture, Forestry, Transportation

• **Passenger Communications:** Maritime Leisure

• **Remote Communications:** Recreation Outdoors, Recreation Travel, Scientific Research

Personal Communication Device Comparison

	Iridium 9555 MODEL # 9555	Iridium Extreme® MODEL # 9575	Iridium Extreme® PTT MODEL # 9575P	Iridium GO!® MODEL # 9560
Description	Most Affordable Handset	Most Ruggedized Handset	Most Ruggedized Handset	Satellite Smartphone Access
Features	Fully Integrated Satellite Phone ———— ———— ————	Fully Integrated Satellite Phone ———— Ruggedized Design Integrated SOS Button	Fully Integrated Satellite Phone ———— Ruggedized Design Integrated SOS Button	———— Wi-Fi Smart Device Connectivity Ruggedized Design Integrated SOS Button
Supported Services	———— Phone Calling ———— SMS ———— ————	———— Phone Calling ———— SMS Location Based Services SOS to Personal Contact or GEOS*	Push-to-Talk Phone Calling ———— SMS Location Based Services SOS to Personal Contact or GEOS*	———— Phone Calling Optimized Smart Device Apps SMS Location Based Services SOS to Personal Contact or GEOS*
Included Accessories	Vehicular Antenna / Adapter Global Charging Accessories Carry Case & Earpiece	Vehicular Antenna / Adapter Global Charging Accessories Carry Case & Earpiece	Vehicular Antenna / Adapter Global Charging Accessories Carry Case & Earpiece	———— Global Charging Accessories Carry Case
Dimensions (H x W x D)	143 x 55 x 30 mm	140 x 60 x 27 mm	140 x 60 x 32 mm	114 x 83 x 32 mm
Weight	266 g	247 g	268 g	305 g
Talk / Standby Time	4 / 30 Hours	4 / 30 Hours	**Phone:** 6.5 / 54 Hours **PTT:** 5 / 16.5 Hours	5.5 / 15.4 Hours
Operating Temperature	-10ºC to +55ºC	-10ºC to +55ºC	-10ºC to +55ºC	-10ºC to +50ºC
Data Speed	2.4 Kbps	2.4 Kbps	2.4 Kbps	2.4 Kbps

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PUSH-TO-TALK DEVICES

Iridium Extreme® PTT

MANUFACTURER Iridium Communications Inc.   **MODEL #** 9575P

Iridium Extreme® PTT is the device for global reliable group communications. Only Iridium can deliver the power of fast, simple, and secure group communication with the toughest, most feature-rich Push-to-Talk-enabled satellite handset on the market.

FEATURES

• PTT Mode Enables Teams to Communicate Instantly with the Push of a Button

• Use On-foot, In-vehicle, or In-building with Available Accessories

• Push-to-Talk Communications are Secure & Kept Private with AES-256 Encryption

• Talkgroup Configuration Can be Adjusted Over-the-air as Needed by Administrators

• Rugged Design for Harsh Environments, Including Jet-water, Shock & Dust Resistant (IP65)

TECHNICAL SPECIFICATIONS

Size / Dimensions	140 x 60 x 32 mm
Weight	268 g
Talk Time	**Phone Mode:** Up to 6.5 Hours **PTT Mode:** Up to 5 Hours
Standby Time	**Phone Mode:** Up to 54 Hours **PTT Mode:** Up to 16.5 Hours
Durability	Military-Grade Ruggedness (MIL-STD 810F)
Ingress Protection	IP65
Operating Temperature	-10°C to +55°C
Data Speed (in Phone Mode)	2.4 Kbps

SERVICES

✓ Voice	✓ GEOS / SOS	✓ Narrowband
✓ SMS	✓ Location-Based Services (LBS)	✗ Midband
✓ Push-to-Talk	✓ Short Burst Data® (SBD®)	✗ Broadband

APPLICATIONS

• **Aviation Solutions:** Push-to-Talk

• **First Response, NGOs & IGOs:** Humanitarian & Emergency Response

• **Government:** Interoperability Solutions, Push-to-Talk

• **Operational Communications:** Fishing

• **Remote Communications:** Construction, Mining, Transportation, Energy, Utilities

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IC-SAT 100

MANUFACTURER Icom   **MODEL #** SAT100

The IC-SAT100 provides a true Land Mobile Radio experience that is enhanced by a low-latency global network. The device is supported by an IP67-rated durable housing, large front-ported speaker for loud audio, a top mounted on / off volume selector, talkgroup selector for "no-look" operations, and a field replaceable antenna.

FEATURES

- Enabling One-to-many Communications with Just a Push of the Transmit (PTT) Button

- Offers Secure Group Communications with AES Encryption

- Built-in Capabilities Include: Emergency Key, Bluetooth® & GPS Receiver

- Compatible with the Full Portfolio of Iridium & Iridium Partner PTT Products for Seamless, Global Push-to-Talk Capabilities

SERVICES

✘ Voice	✘ GEOS / SOS	✔ Narrowband
✘ SMS	✘ Location-Based Services (LBS)	✘ Midband
✔ Push-to-Talk	✘ Short Burst Data® (SBD®)	✘ Broadband

APPLICATIONS

- **Aviation Solutions:** Push-to-Talk

- **First Response, NGOs & IGOs:** Humanitarian & Emergency Response

- **Government Land:** Interoperability Solutions, Push-to-Talk

- **Operational Communications:** Fishing

- **Remote Communications:** Construction, Mining, Transportation, Energy, Utilities

TECHNICAL SPECIFICATIONS

Size / Dimensions	135 x 57.8 x 32.8 mm
Weight	360 g with BP-300 & Antenna
Talk Time:	Up to 7 Hours
Standby Time:	Up to 14.5 Hours
Durability	Water, Shock & Dust-Proof (MIL-STD 810G)
Ingress Protection	IP67
Operating Temperature	-30°C to +60°C
Data Speed	2.4 Kbps

Push-to-Talk Device Comparison

	Iridium Extreme® PTT MODEL # 9575P	Icom IC-SAT 100 MODEL # SAT100
Description	Iridium Satellite Phone with Iridium PTT	Iridium PTT LMR-style Handset
Services	Telephony & Iridium Push-To-Talk	Iridium Push-To-Talk
Speaker	Small Top Mount	Large Front Mount
Talkgroup Selector	Front Two-Way Navigation Keys	Top Facing Knob
Volume Selector	Side Up / Down Keys	Top Facing Knob
Antenna	Retractable	Field Replaceable, Flexible
PTT Button	Right Side	Left Side Wide Portfolio - Icom / LMR
Accessories	Iridium + Partners Compatible	Compatible
Talk / Standby	5 / 16.5 Hours Connects to Programmable SOS Contactor	7 / 14.5 Hours
Emergency Button	Emergency Monitoring Center (GEOS)*	Creates Priority Talkgroup
IP Rating / Military Standard	IP-65 / MIL-STD 810F	IP-67 / MIL-STD 810G
Messaging	Standard Telephony SMS	Within Talkgroup
Iridium PTT Coverage	Global	
Talkgroup Setup	Over the Air, Setup in Seconds with Iridium PTT Command Center	
Interoperability with Other PTT Devices	Iridium Partner Cross-Band Products	Through Optional Icom VE-PG4 RoIP Gateway
Accessory	Multiple Iridium Partner Options	Contact Icom for Availability
Dimensions (H x W x D)	140 x 60 x 32 mm	135 x 57.8 x 32.8 mm
Weight	268 g	360 g with BP-300 & Antenna
Operating Temperature	-10ºC to +55ºC	-30ºC to +60ºC
Data Speed	2.4 Kbps	2.4 Kbps

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TRANSCEIVERS

Iridium 9522B (End of Life)*

MANUFACTURER Iridium Communications Inc.   **MODEL #** IRID0025

The Iridium 9522B Satellite Transceiver is ideal for sending and receiving voice and data from equipment everywhere on the planet. It functionally supports all of Iridium's voice and data services and easily integrates into a wide variety of applications through a RS-232 serial interface and AT Command set.

FEATURES

- 26-pin IDC Connector
- RS-232 Serial Interface
- Enables Continuous Circuit Switched Connection
- Connects to Small Omni Directional L-band Antennas
- GPS Feed-through Connector for Shared Antenna

- SMA RF Antenna Connector
- Integrated SIM Card Reader
- Enhanced AT Command Support
- DPL Bus for Control of External Peripherals
- FCC, Industry Canada, & CE Approval**

TECHNICAL SPECIFICATIONS

Size / Dimensions	162 mm x 81 mm x 28 mm
Weight	420 g
DC Power Input	
- Main Input	+4.0 VCD to +32 VDC
- Nominal	5 V, 12 V, 24 V
- Ripple	40 mVpp
- Maximal Current (Call)	2.5 A @ 5 V
- Power Average (Call)	4W
Operating Temperature	–30°C to +70°C
Data Speed	2.4 Kbps

SERVICES

✓ Voice
✓ SMS
✗ Push-to-Talk
✗ GEOS / SOS

✓ Location-Based Services (LBS)
✓ Circuit Switched Data
✓ RUDICS
✓ Short Burst Data® (SBD®)

✓ Narrowband
✗ Midband
✗ Broadband

APPLICATIONS

- Asset Tracking
- Aviation Tracking
- Environment & Safety Monitoring
- Equipment Monitoring

- Fleet Management
- Maritime Vessel Tracking
- Personnel Tracking
- Remote Automation & Control

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Iridium Core 9523

MANUFACTURER Iridium Communications Inc.   **MODEL #** IRIDN0125

Iridium Core 9523 is Iridium's smallest, lightest and most advanced voice and data satellite transceiver module ever, enabling simplified global voice and data connectivity through the world's furthest reaching network.

TECHNICAL SPECIFICATIONS

Size / Dimensions	70.44 x 36.04 x 14.6 mm (H, Reservoir Capacitors) / 8.9 mm (H, Screen Can)
Weight	32 g

Power / VBOOST Power Consumption

- Typical Average Power During Call:	2.3 W
- Maximal Average Power During Call:	3.1 W
Operating Temperature	-30°C to +70°C

DC Power Input
VBAT Power Input Specifications

- Nominal Voltage	+3.7 V
- Voltage Limits	+3.2 V to +6 V
- Maximal Current	500 mA
- VBAT Typical Current at Nominal	+3.7 V
- Standby Current	70 mA
- Calling Current	300 mA (Peak)
- Calling Current	110 mA (Average)

VBOOST Power Input
Voltage

- Nominal	+27 V
- Absolute Maximal	+35 V
- Maximal Recommended	+32 V
- Minimal During Call Transmit Burst	+10.5 V
- Maximal Current	1 A
Data Speed	2.4 Kbps

FEATURES

- Ultra-compact Footprint & Standardized Connectors Enable Direct Printed Circuit Board (PCB) Integration

- Small but Powerful, Iridium Core 9523 Supports all Iridium Narrowband Voice & Data Services

- Delivers the Technology Backbone for Embedded Applications such as GPS & Location-Based Services (LBS), Wi-Fi & Bluetooth®

- FCC, Industry Canada & CE Approval*

SERVICES

✓ Voice	✓ Location-Based Services (LBS)	✓ Narrowband
✓ SMS	✓ Circuit Switched Data	✗ Midband
✓ Push-to-Talk	✓ RUDICS	✗ Broadband
✗ GEOS / SOS	✓ Short Burst Data® (SBD®)	

APPLICATIONS

- **Asset Tracking:** Trailer & Container Tracking

- **Aviation Tracking:** Cargo, Mail, Aircraft

- **Environment & Safety Monitoring:** Animal Conservation, Farming, Scientific Research

- **Equipment Monitoring:** Mining, Construction, Oil, Gas

- **Fleet Management:** Vehicle Management, Forestry, Heavy Equipment

- **Maritime Vessel Tracking:** Fishing, Sailing, Recreation

- **Personnel Tracking:** NGOs, Military, First Response

- **Remote Automation & Control:** Autonomous Driving

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Iridium 9602

MANUFACTURER Iridium Communications Inc.   **MODEL #** SBDN9602

The Iridium 9602 Transceiver, designed to be integrated into a wireless data application with other host system hardware and software, provides a complete satellite data solution for your application by transmitting data via Iridium Short Burst Data® (SBD®).

FEATURES

- Single-board Transceiver with all Device Interfaces Controlled by a Single Multi-pin Interface Connector
- Small Form Factor Makes it Ideal for Space-constrained Uses, Including Fixed, Mobile & Battery-powered Applications
- GPS Module Antenna Feed for Shared Antenna Applications
- Does Not Incorporate or Require a SIM Card
- RoHS Compliant & Meets Industry Standards in North America (FCC) & Europe (CE)*

SERVICES

✘ Voice	✘ Location-Based Services (LBS)	✓ Narrowband
✘ SMS	✘ Circuit Switched Data	✘ Midband
✘ Push-to-Talk	✘ RUDICS	✘ Broadband
✘ GEOS / SOS	✓ Short Burst Data® (SBD®)	

APPLICATIONS

- **Asset Tracking:** Trailer & Container Tracking
- **Environment & Safety Monitoring:** Animal Conservation, Scientific Research, Farming
- **Equipment Monitoring:** Mining, Construction, Oil, Gas
- **Fleet Management:** Vehicle Management, Heavy Equipment, Forestry
- **Maritime Vessel Tracking:** Fishing, Sailing, Recreation
- **Personnel Tracking:** NGOs, Military, First Response
- **Remote Automation & Control:** Autonomous Driving

TECHNICAL SPECIFICATIONS

Size / Dimensions	41 x 45 x 13 mm
Weight	30 g
DC Power Input	
- Idle Current	
Average	35 mA
Peak	170 mA
- Transmit Current	
Average	140 mA
Peak	1.3 A
- Receive Current	
Average	40 mA
Peak	170 mA
- SBD® Message Transfer	
Average Current	150 mA
Average Power	≤0.8 W
Operating Temperature	-40°C to +85°C
Data Speed	2.4 Kbps

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Iridium 9603

MANUFACTURER Iridium Communications Inc.   **MODEL #** SBDN9603

One-fourth the volume and half the footprint of the Iridium 9602, the innovative Iridium 9603 Transceiver combines the global coverage of the Iridium satellite constellation with the low latency of the Iridium Short Burst Data® Service to provide highly reliable satellite communications from pole to pole.

FEATURES

- World's Smallest Commercially Available Two-way Satellite Data Transceiver, Designed for Applications Where Space is at a Premium
- Ideal for Space-constrained Uses, Including: Fixed, Mobile & Battery Powered Applications
- Automatic Notification that Mobile-terminated Messages are Queued
- Does Not Incorporate or Require a SIM Card
- Compliant with Industry Standards in North America (FCC) & Europe (CE)*

SERVICES

✘ Voice	✘ Location-Based Services (LBS)	✔ Narrowband
✘ SMS	✘ Circuit Switched Data	✘ Midband
✘ Push-to-Talk	✘ RUDICS	✘ Broadband
✘ GEOS / SOS	✔ Short Burst Data® (SBD®)	

APPLICATIONS

- **Asset Tracking:** Trailer & Container Tracking
- **Environment & Safety Monitoring:** Animal Conservation, Scientific Research, Farming
- **Equipment Monitoring:** Mining, Construction, Oil, Gas
- **Fleet Management:** Vehicle Management, Heavy Equipment, Forestry
- **Maritime Vessel Tracking:** Fishing, Sailing, Recreation
- **Personnel Tracking:** NGOs, Military, First Response
- **Remote Automation & Control:** Autonomous Driving

TECHNICAL SPECIFICATIONS

Size / Dimensions	31.5 x 29.6 x 8.1 mm
Weight	11.4 g
DC Power Input	
- Supply Input Voltage	
Range	5.0V +/- .5V DC
Ripple	<40 mV pp
- Idle Current	
Average	34 mA
Peak	156 mA
- Transmit Current	
Average	145 mA
Peak	1.3 A
- Receive Current	
Average	39 mA
Peak	156 mA
- SBD® Message Transfer	
Average Current	158 mA
Average Power	<= 0.8 W
Operating Temperature	-40°C to +85°C
Data Speed	2.4 Kbps

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Transceiver Comparison

	Iridium 9522B MODEL # IRID0025	Iridium Core 9523 MODEL # IRIDN0125	Iridium 9602 MODEL # SBDN9602	Iridium 9603 MODEL # SBDN9603
Form Factor	Black Box	Board-to-Board	Board-to-Board	Board-to-Board
Dimensions (L x W x H)	162 x 81 x 28 mm	70 x 36 x 9 mm	41 x 45 x 13 mm	31.5 x 29.6 x 8.1 mm
Interfaces	AT+ Command, RS232 Digital / Anaologue	AT+ Command	AT+ Command	AT+ Command
Power Requirements	+4.0 VDC to +32 VDC	+3.2 V to +6 V	+5 V +/- 0.5V	+5 V +/- 0.5V
Power Consumption	Idle 220 mA Transmit 800 mA Receive 800 mA	Idle 70 mA Transmit 300 mA Receive 110 mA	Idle 35 mA Transmit 140 mA Receive 40 mA	Idle 34 mA Transmit 145 mA Receive 39 mA
Operating Temperature	-30ºC to +70ºC	-30ºC to +70ºC	-40ºC to +85ºC	-40ºC to +85ºC
Vibration & Shock	EN60068-2-14:2000 EN60068-2-32:1993 EN60068-2-27:1993 EN60068-2-6:1996 SAE J1455:1994	EN60068-2-14:2009 IEC60068-2-64:2008 EN60068-2-27:2009 SAE J1455 MILSTD 810	EN60068-2-14:2000 EN60068-2-36:1996 EN60068-2-27:1993 J1455	EN60068-2-14:2009 IEC60068-2-64:2008 EN60068-2-27:2009 SAE J1455
Typical Applications	Maritime, Aviation, Mobile Markets	Maritime, Aviation, Mobile Markets	Personnel & Asset Tracking, Fleet Management, Environment & Safety Monitoring, Remote Automation & Control	Personnel & Asset Tracking, Fleet Management, Environment & Safety Monitoring, Remote Automation & Control
Development Kit Available	----------	Yes	Yes	Yes
Services	SBD®, CSD, SMS, RUDICS, TELEPHONY	SBD®, CSD, SMS, RUDICS, TELEPHONY	SBD®, Iridium Burst®	SBD®, Iridium Burst®
Latency (Average)	<45 Seconds for 1KB message (MO & MT)*	<45 Seconds for 1KB message (MO & MT)*	<20 Seconds per 340 Bytes (MO)	<20 Seconds per 340 Bytes (MO)
Major Networks & Regional Certifications**	FCC, IC, RED, CE, Anatel, Australia, RoHS, Others	FCC, IC, RED, CE, Anatel, Australia, RoHS, Others	FCC, IC, RED, CE, Anatel, Australia, RoHS, Others	FCC, IC, RED, CE, Anatel, Australia, RoHS, Others
Data Speed	2.4 Kbps	2.4 Kbps	2.4 Kbps	2.4 Kbps

*Latency average assumes data connection established

**For complete information on local in-country approvals, refer to an authorized Iridium Service Provider

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IOT PRODUCTS

Iridium Edge®

MANUFACTURER TE Connectivity   **MODEL #** EDGE9680

Iridium Edge® is a cost-effective satellite IoT communications device that can be rapidly deployed to enable dual-mode capabilities for existing terrestrial-based solutions and expands connectivity beyond cellular limits for 100% global IoT coverage. Iridium Edge® can be used to add satellite connectivity for cellular-based applications, or as a fixed location satellite-based monitoring device.

FEATURES

• Designed to be Plug-and-play, Iridium Edge® can be Easily Paired with Existing Satellite & Cellular Solutions, without Complicated Integration or Development Requirements

• All-in-one Short Burst Data® (SBD®) Modem & Antenna, with Robust Power Supply for Industrial Installations

• 180° Line of Sight for Compromised or Partially Blocked Locations

SERVICES

✘ GEOS / SOS	✓ Narrowband
✓ Short Burst Data® (SBD®)	✘ Midband
✘ Location-Based Services (LBS)	✘ Broadband

APPLICATIONS

• **Asset Tracking:** Trailer & Container Tracking

• **Fleet Management:** Vehicle Management, Heavy Equipment, Forestry

• Maritime Vessel Monitoring

• Remote Monitoring

• SCADA

• Telematics

TECHNICAL SPECIFICATIONS

Size / Dimensions	130 x 80 x 30 mm
Weight	320 g
Power	
- Power Supply	(9 - 32V), SAE J1455 Load Dump Protected
- Maximum Power Peak for Short Transmit Burst	1.6 W
- Low Power Modes Reverse Polarity Protection	< 200 uA
Ingress Protection	IP67
Operating Temperature	-40°C to + 85°C
Data Speed	2.4 Kbps

Iridium Edge® Pro

MANUFACTURER MetOcean Telematics   **MODEL #** EDGEPRO9690

Iridium Edge® Pro is a standalone IoT device with a flexible programming platform that allows developers to create and run their own custom-made applications. Using Short Burst Data® (SBD®), the Iridium Edge® Pro offers real-time GPS tracking capabilities over the Iridium® network.

FEATURES

• Iridium Edge® Pro can be Remotely Reconfigured (Over-the-air), & Features Built in Temperature, GPS & Accelerometer Sensors

• Quick Partner (VAR) Development Using Java

• Common Services Including Geofencing, Event Logging & Position Reporting

• Industry-standard Eclipse-based IDE & Virtual Device Emulators for Application Development

TECHNICAL SPECIFICATIONS

Size / Dimensions	127 x 90 x 41 mm
Weight	200 g
Power	
- Power Supply	(7 -32 V), SAE J1455 Load Dump Protected
- Maximum Power Peak for Short Transmit Burst	1.6W
Ingress Protection	IP67
Operating Temperature	-40°C to +85°C
Data Speed	2.4 Kbps

SERVICES

✘ GEOS / SOS   ✔ Narrowband

✔ Short Burst Data® (SBD®)   ✘ Midband

✘ Location-Based Services (LBS) ✘ Broadband

APPLICATIONS

• **Asset Tracking:** Trailer & Container Tracking

• Agriculture

• **Fleet Management:** Vehicle Management, Heavy Equipment, Forestry

• Maritime Vessel Monitoring

• Oil & Gas

• Remote Monitoring

• **SCADA:** Energy & Utilities

Iridium Edge® Solar

MANUFACTURER Geoforce   **MODEL #** 9640

The Iridium Edge® Solar is a standalone and programmable, solar-powered Short Burst Data® (SBD®) device that offers real-time GPS tracking and local wireless sensor and communication capabilities over Bluetooth®. The product's self-charging, low maintenance, long field life and over-the-air configuration allow Iridium Value-Added Resellers to create distinct tracking applications that can also be implemented to create even more complex solutions.

FEATURES

• Long Field Life Makes it Particularly Useful for In-transit Visibility & Remote Monitoring
• Bluetooth® Capability for Wireless Sensor Integration & Local Device Connectivity
• Over-the-air Configuration Capabilities Allow Users to Create Applications Remotely Implement Them in Real-time
• Easily Paired with Cellular Solutions Using Programmable Interfaces
• Reporting Modes Include: Interval & Scheduled, Start / Stop Reporting, & In Motion Reporting

TECHNICAL SPECIFICATIONS

Size / Dimensions	164 x 71 x 33 mm
Weight	~470 g
Power	N/A - Solar Powered
Ingress Protection	IP68
Operating Temperature	-40°C to +85°C
Data Speed	2.4 Kbps

SERVICES

✘ GEOS / SOS   ✓ Narrowband

✓ Short Burst Data® (SBD®)   ✘ Midband

✘ Location-Based Services (LBS)   ✘ Broadband

APPLICATIONS

• Asset Tracking   • Oil & Gas

• Fleet Management   • Security

• Lone Workers   • Vessel Monitoring

• Leisure Craft

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IoT Products Comparison

	Iridium Edge® MODEL # EDGE9680	Iridium Edge® Pro MODEL # EDGEPRO9690	Iridium Edge® Solar MODEL # 9640
Form Factor	Standalone	Standalone with GPS, Java Programmable	Standalone with GPS, Configurable Profiles
Dimensions (L x W x H)	130 x 80 x 30 mm	127 x 90 x 41 mm	164 x 71 x 33 mm
Weight	330 g	200 g	470 g
Interfaces	AT+ Command, RS 232	4 I/O, CANbus, RS 232, RS 485	BLE
Power Requirements	9-32 V	7-32 V	Internal Non-rechargeable & Solar Chargeable Batteries
Power Consumption (Average)	Transmit Slot Max. 1.6W Power On Max. Current 0.5A Operational Max. Current 0.3A	Receive 0.6W GNSS +0.6W	Harvests Energy from the Sun
Operating Temperature	-40ºC to +55ºC	-40ºC to +85ºC	-40ºC to +85ºC
Environmental Specs	SAE J1455,* IP 67	SAE J1455,* IP 67	SAE J1455,* MIL-STD-910, IP 68
Typical Applications	Asset Tracking, Fleet Management, Environment & Safey Monitoring, Remote Automation & Control	Fisheries, Vessel & Fleet Management, Remote Monitoring	Oil & Gas, Transportation, Agriculture, Surface Mining, Asset & Vehicle Tracking
Development Kit	Yes	Yes	Yes
Services	SBD®	SBD®	SBD®
Average Latency	<20 Seconds Per 340 Bytes (MO)	<20 Seconds Per 340 Bytes (MO)	<20 Seconds Per 340 Bytes (MO)
Certifications*	US (FCC), EU (CE Mark)	US (FCC), EU (CE Mark)	US (FCC), EU (CE Mark)
Data Speed	2.4 Kbps	2.4 Kbps	2.4 Kbps

*For complete information on local in-country approvals, refer to an authorized Iridium Service Provider

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IRIDIUM CERTUS™ TRANSCEIVERS

Iridium Certus™ 9770

MANUFACTURER Iridium Communications Inc.   **MODEL #** 9770

The Iridium Certus™ 9770 Transceiver provides midband IP data services with L-Band speeds at up to 22 Kbps transmit and 88 Kbps receive, in addition to high-quality voice connectivity.

FEATURES

- Small Form Factor Enables Creation of Highly Mobile & Versatile Devices
- Offers Simultaneous Voice & IP Data in a Single Platform
- Transfers IP Data Over 35 Times Faster than the Iridium Core 9523 Transceiver
- Two (2) High-quality Iridium Certus® Voice Circuits
- Compatible with Passive Omnidirectional Antenna
- Major Certifications Obtained: FCC, IC , CE*

SERVICES

✓ Voice	✓ Prepaid Voice	✗ Narrowband
✗ SMS	✗ Prepaid Data	✓ Midband
✗ Push-to-Talk	✓ Postpaid Data	✗ Broadband

APPLICATIONS

- Personal Communicators
- Unmanned Aerial Vehicles (UAV)
- **Remote Communications:** Agriculture, Forestry, Construction, Mining, Heavy Equipment, Recreation, Outdoors, Recreation Travel, Scientific Research, Transportation, Energy, Utilities
- **Maritime Vessel Tracking:** Fishing, Sailing, Recreation
- **Aviation Tracking:** Cargo, Mail, Aircraft
- Governments, Military & Foreign MODs

TECHNICAL SPECIFICATIONS

Size / Dimensions	140 x 60 x 16 mm
Weight	185 g
Power	
- Input Voltage	12V +/- 2.5V
- Maximum Operating Current	1.5 A
- Average Power Consumption at Full Receive / Transmit	3.5W Typical
Operating Temperature	-40ºC to +70ºC
Data Speed	
- Transmit	Up to 22 Kbps
- Receive	Up to 88 Kbps

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Iridium Certus™ 9810

MANUFACTURER Iridium Communications Inc.   **MODEL #** 9810

Optimized for the fastest L-band speeds available, the Iridium Certus™ 9810 is the core digital and radio frequency (RF) module of the Iridium Certus® satellite communications service for a variety of specialty broadband service classes.

FEATURES

- Delivers the Fastest L-Band Data Speeds Available
- Three (3) Simultaneous High-quality Iridium Certus® Voice Lines
- Highly Mobile & Scalable Based on the Needs of End Users
- Flexible Design Supports High-gain Multi-element & Low-gain Omnidirectional Antennas
- FCC, IC, CE, ETSI, AS / NZS, RoHS Compliant*

TECHNICAL SPECIFICATIONS

Size / Dimensions	150 x 133 x 18 mm
Weight	500 g
Power	
- Input Voltage	+12 VDC +/- 1.2 V
DC Power Consumption	
- Iridium Certus® 700	17.7 W (Dual DSP)
- Iridium Certus® 350	17.1 W (Dual DSP)
- Iridium Certus® 200	15.0 W (Single DSP)
- Iridium Certus® 100	14.8 W (Single DSP)
Operating Temperature	-40ºC to +75ºC
Data Speed	
- Transmit	Up to 352 Kbps
- Receive	Up to 704 Kbps

SERVICES

✓ Voice	✓ Prepaid Voice	✗ Narrowband
✗ SMS	✓ Prepaid Data	✗ Midband
✗ Push-to-Talk	✓ Postpaid Data	✓ Broadband

APPLICATIONS

- **Aviation:** Business, Commerical, General
- Commercial Fishing
- Emergency & First Response
- Governments
- Merchant Shipping
- Military / Foreign MODs
- NGOs

- Oil & Gas
- Rail
- Remote Transportation
- Rotorcraft & Fixed Wing Aircraft
- Unmanned Aerial Vehicles (UAV)
- Workboats

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Iridium Certus™ Transceivers Comparison

	Iridium Certus™ 9770 MODEL # 9770	Iridium Certus™ 9810 MODEL # 9810
Form Factor	Embedded	Embedded
Dimensions (L x W x H)	140 x 60 x 16 mm	150.6 x 133.6 x 18.2 mm
Weight	185 g	500 g
Interfaces	JSON REST Over Serial	JSON
Power Requirements	+12 VDC +/- 2.5 V	12 VDC +/- 10 V
Power Consumption (Average)	Idle 60m W Full Transmit / Receive 3.5 W	Monitor Mode 12.6 W Low Data Rate 14.7 W High Data Rate 17.4 W
Operating Temperature	-40°C to +70°C	-40ºC to +75ºC
Environmental Specs	EN60068-2-14:2009 EN60068-2-64:2008 EN60068-2-27:2009 SAE J1455	IEC 60068-2-1 | IEC 60068-2-13 IEC 60068-2-64 | IEC 60068-2-78 SAE J1455:2012 Section 4.1.3.2 SAE J1455:2012 Section 4.11.3.1
Typical Applications	Fleet & Vessel Management, Lone Worker Communications, SCADA, Remote Monitoring	Maritime & Safety Communications, Aviation Cockpit Communications, Government Use
Development Kit	Yes	Yes
Services	Iridium Certus®, IP Data, (2) Voice Lines	Iridium Certus®, IP Data, (3) Voice Lines, Messaging, Safety Services
Certfications*	US (FCC), EU (CE MARK), CANADA(IC), ROHS, REACH	US (FCC), EU (CE MARK), CANADA(IC), ROHS, REACH, Australia / New Zealand (AS / NZS)

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IRIDIUM CERTUS®
ENABLED
PARTNER PRODUCTS

MissionLINK™ by Thales

MANUFACTURER Thales   **MODEL #** MF350BV

MissionLINK™ by Thales – a global leader in satellite communications systems and communications technologies – gives your mission-critical operations access to the fastest L-band broadband data speeds and high-quality voice regardless of the landscape. It is the solution to depend on for essential communications wherever your mission takes you. Whether you operate as part of a deployed force or a single individual, this solution is designed to meet your unique challenges through a simple, adaptable and robust design.

FEATURES

- Intuitive, User-friendly Interface can be Quickly Integrated into Existing Vehicles or New Fleets
- Secondary Data Flows to Manage & Prioritize Access & Use of the Service
- Easily Integrates Terrestrial Cellular Networks with Built-in Preferred Routing Switch
- Voice & Data-enabled, Delivering up to three (3) Dedicated Voice Channels & Connecting up to twelve (12) Devices
- Real-time Emergency Alert & Distress Notifications
- High-gain, Electronic Phased Array Antenna with No Moving Parts

SERVICES

✓ Voice	✓ Prepaid Data	✘ Narrowband
✓ Prepaid Voice	✓ Postpaid Data	✘ Midband
	✓ IP Data	✓ Broadband

APPLICATIONS

- Government Land
- Lone Worker
- Agriculture & Forestry
- Construction & Mining
- Energy & Utilities
- Heavy Equipment

- Transportation
- NGOs & IGOs
- Humanitarian & Emergency Response

TECHNICAL SPECIFICATIONS

Size / Dimensions

- Antenna	355 x 102 mm
- Terminal	305 x 229 mm

Weight

- Antenna	3.2 Kg
- Terminal	3.4 Kg

Power

- Technical Parameters	12 VDC Input, 11A Max (7A Avg.), Includes Powering External HGA-2 Antenna
- Antenna Specifications	Directly Powered by the Terminal at 24 VDC

Durability	MIL-STD-810G
Ingress Protection	IP66-Rated Antenna
Operating Temperature	-30ºC to +55ºC

Data Speed

- Upload	Up to 352 Kbps
- Download	Up to 704 Kbps

Intellian C700

MANUFACTURER Intellian Technologies Inc.   **MODEL #** C1-70-A00

Intellian's C700 terminal will enable a variety of applications including safety, bridge and crew welfare communications, connected ship IoT capabilities like engine monitoring and remote diagnostics, as well as situational awareness reports. Developed for Iridium's global network and designed to provide the fastest L-band broadband service in the industry, the C700 will deliver up to 352 Kbps transmission and 704 Kbps reception speeds through the Iridium Certus® platform.

FEATURES

• Powerful Phased-array Antenna Guarantees a Reliable & High-throughput Connection
• 12-element Patch Technology Ensures Seamless Connectivity, Even in Adverse Weather or Environments
• Three (3) High Quality Voice Lines with Soft PBX Function & Simultaneous IP Connections for up to Sixteen (16) SIP Handsets
• Easy APIs for M&C, Firewall Security, & Will Easily Integrate as Part of a VSAT Out-of-band Management Solution
• Recharge Your Device or Transfer Data Using a Standard USB Cable

SERVICES

✓ Voice   ✓ Prepaid Data   ✗ Narrowband
✓ Prepaid Voice   ✓ Postpaid Data   ✗ Midband
                           ✓ IP Data   ✓ Broadband

APPLICATIONS

• **Crew Welfare :** Merchant

• **Operational Communications:** Merchant

• Passenger Communications

• Leisure

• Tracking & Monitoring

• Fishing

TECHNICAL SPECIFICATIONS

Size / Dimensions

- ADU	370 x 270 mm
- BDU	280 x 183.5 x 41 mm

Weight

- ADU	8 kg
- BDU	3.5 kg (Stand-alone Type)

Power DC Input 10 ~ 32 V DC Power (Max) 120 W

Ingress Protection

- ADU	IP56
- BDU	IP31

Operating Temperature

- ADU	-25ºC to +55ºC
- BDU	-15ºC to +55ºC

Data Speed

- Upload	Up to 352 Kbps
- Download	Up to 704 Kbps

SAILOR 4300 by Cobham

MANUFACTURER Cobham   **MODEL #** 404330A-00510

Compact and incredibly easy to install, Cobham's SAILOR 4300 Iridium Connected terminal is a pinnacle of L-band satcom performance and reliability. SAILOR 4300 utilizes the Iridium® network to provide your on-board link through high bandwidth IP connectivity and three (3) high-quality voice lines for global calling wherever you are.

FEATURES

• Easy to Install Terminal with a Rich Feature-set & Class-leading Lifecycle Costs

• High Bandwidth IP Connectivity & Three (3) High-quality Voice Lines for Global Calling

• Designed for Seamless Integration with Multi-band Communication Networks, Making it Easy for VSAT Service Providers to Use it as a Cost-effective, High-speed Secondary Communications Channel

• Built to the Highest Reliability Standards, There is No Scheduled Service Interval & No Maintenance for at Least 10 Years After Installation

SERVICES

✓ Voice	✓ Prepaid Data	✘ Narrowband
✓ Prepaid Voice	✓ Postpaid Data	✘ Midband
	✓ IP Data	✓ Broadband

APPLICATIONS

• **Crew Welfare:** Fishing, Merchant

• **On-Board Communications:** Leisure

• **Operational Communications:** Fishing, Merchant

TECHNICAL SPECIFICATIONS

Size / Dimensions

- BDU	480 x 270 x 40 mm
- BDU	19" 480 x 490 x 40 mm
- ADU	ø=380 mm, H=370 mm

Weight

- BDU	3.5 kg
- BDU	19" 3.8 kg
- ADU	8 kg

Power

| - DC Input Range (Isolated) | 10.5V to 32V DC |
| - Power (Max) Including Antenna & PoE Output | 120W @ 10-32 V |

Ingress Protection

| - Above Deck Equipment | IPX6 |
| - Below Deck Equipment | IP31 |

Operating Temperature -25ºC to +55°C

Data Speed

| - Upload | Up to 176 Kbps |
| - Download | Up to 704 Kbps |

VesseLINK™ by Thales

MANUFACTURER Thales   **MODEL #** VF350BM

VesseLINK™ by Thales – a global leader in delivering sophisticated solutions for the world's navies – gives your critical marine operation global communications coverage. It is the solution to depend on for essential communications wherever and whenever you are at sea. Whether you operate a large fleet or a single vessel, this solution is designed to meet your unique challenges through a simple, adaptable and robust design.

FEATURES

- Intuitive, User-friendly Interface Easily Integrates with Your Existing Equipment to Fully Digitize Your Vessel
- Voice & Data-enabled, Delivering up to Three (3) High-quality Dedicated Voice Channels & Connecting up to Twelve (12) Devices
- High-gain, Electronic Phased Array Antenna with No Moving Parts to Enable the Fastest Upload & Download Speeds to Cover Any Vessel Communications Need
- Enhanced At-sea Eeporting, Aervice Logging, Crew Connectivity, System / Cargo Monitoring & Out-of-band Management

SERVICES

✓ Voice   ✓ Prepaid Data   ✗ Narrowband
✓ Prepaid Voice   ✓ Postpaid Data   ✗ Midband
     ✓ IP Data   ✓ Broadband

APPLICATIONS

- **Crew Welfare:** Merchant
- **Operational Communications:** Merchant
- Passenger Communications
- Leisure
- Tracking & Monitoring
- Fishing

TECHNICAL SPECIFICATIONS

Size / Dimensions

- Antenna	356 x 229 mm
- Terminal	305 x 229 mm

Weight

- Antenna	3.2 Kg
- Terminal	3.4 Kg

Power

- Below Deck	
Option 1	10-32VDC
Option 2	AC/DC Supply with 12VDC
*65W Nominal / 120W Max	
- Above Deck	Directly Powered by the Terminal at 24 VDC

Durability	MIL-STD-810G
Ingress Protection	IP67
Operating Temperature	-60ºC to +55ºC

Data Speed

- Upload	Up to 352 Kbps
- Download	Up to 704 Kbps

FlytLINK™ by Thales

MANUFACTURER Thales   **MODEL #** Pending

Thales FlytLINK utilizes the Iridium® network to provide highly reliable, mobile and essential voice, text and web communications for both cockpit and crew operations. This solution is designed to meet the unique needs of any fleet or a single aircraft, through a simple, adaptable and robust design.

FEATURES

- Enables Essential Communications for Critical Operations & Enhanced Safety Features

- Immune from Interference by Weather, Rotors, Geographic Features & Other Forms of Signal Interruption

- Intuitive Interface & User-friendly Operation Includes On-wing Upgradeability to Future-proof Your Investment & Ensure Peak Speed & Performance Over Time

- Enhanced In-air Reporting, Real-time Weather, Service Logging, Flight Crew Scheduling, Aircraft Monitoring & More

SERVICES

✓ Voice	✓ Prepaid Data	✗ Narrowband
✓ Prepaid Voice	✓ Postpaid Data	✗ Midband
	✓ IP Data	✓ Broadband

APPLICATIONS

- **Cabin:** Gov Air, Crew Communications, Commercial Aviation

- **Operational Communications:** Business Aviation, Rotorcraft, Commercial Aviation

- **Passenger Communications:** Business Aviation, Rotorcraft

- **Safety Services:** Business Aviation, Commercial Aviation

TECHNICAL SPECIFICATIONS

SDU
- Size / Dimensions — ARINC 2MCU, 380 x 193 x 61 mm
- Weight — <3.8 kg
- Power — 28VDC Input, 5A Max

HGA
- Size / Dimensions — 500 x 200 x 50 mm
- Weight — <5 kg

ALGA
- Size / Dimensions — ~ 250 x 100 x 50 mm
- Weight — <5 kg

LGA
- Size / Dimensions — 199 x 76 x 21 mm
- Weight — 0.47 kg

SCM
- Size / Dimensions — 109 x 101 x 22 mm
- Weight — 0.25 kg

Data Speed
- Upload — Up to 352 Kbps
- Download — Up to 704 Kbps

THALES   iridium® connected

GMDSS PRODUCTS

LT-3100S GMDSS System

MANUFACTURER Lars Thrane A/S   **MODEL #** 3100S

The Lars Thrane LT-3100S GMDSS System is the new satellite solution for GMDSS Distress and Safety communications. With the LT-3100S, mariners will have an all-in-one system that can meet Safety of Life at Sea (SOLAS) convention vessel carriage requirements, while also serving as a primary or companion communications system. Unlike the competitive alternative, this small and compact new terminal will offer GMDSS services, along with voice, texting, and data services with a built in GNSS / GPS receiver.

FEATURES

• Pressing the Red Button Sends Both a Distress Alert & Makes a Distress Call to a Rescue Coordination Center (RCC)
• Integrates Three (3) Satellite GMDSS Services at What is Expected to be a Fraction of the Existing Cost of Competitive Options
• Delivers 100% Global GMDSS Coverage, Including Extreme Polar Regions (Sea Areas A1 to A4)
• Designed & Built for the Demanding & Rough Environment at Sea
• Antenna Unit Can be Installed up to 500 Meters from the Control Unit for Mounting Flexibility

SERVICES

✓ Voice
✓ SMS

✓ GMDSS Safety Voice
✓ GMDSS Safety Messaging
✓ GMDSS Iridium SafetyCast^{SM}

✓ Circuit Switched Data
✓ RUDICS

✓ Narrowband
✗ Midband
✗ Broadband

APPLICATIONS

• **On-Board Communications:** Leisure
• **Operational Communications:** Fishing, Merchant
• **Safety Services:** Leisure
• Secure Communications
• **Tracking & Monitoring:** Merchant, Government
• Resource Preservation

TECHNICAL SPECIFICATIONS

Size / Dimensions

- LT-3110S Control Unit	224 x 120 x 70 mm
- LT-3120 Handset Unit	208.8 x 52.8 x 38.2 mm
- LT-3130 Antenna Unit	151.1 x 149.5 mm

Weight

- LT-3110S Control Unit	0.6 kg
- LT-3120 Handset Unit	0.3 kg
- LT-3130 Antenna Unit	0.7 kg

Power	10 - 32 VDC

Ingress Protection

- LT-3110S Control Unit	IP32
- LT-3120 Handset Unit	IP32
- LT-3130 Antenna Unit	IP67

Operating Temperature	-40ºC to +55ºC
Data Speed	2.4 Kbps

IRIDIUM BROADBAND PRODUCTS

Iridium Pilot® (End of Life)*

MANUFACTURER Iridium Communications Inc.   **MODEL #** BDU: 9701 / ADU: 9801

Built to perform in tough conditions, Iridium Pilot® delivers reliable global broadband data and voice connectivity in one low-cost platform — keeping ships and crews connected when they need it most. The omni-directional antenna with no moving parts has been engineered to withstand the effects of nearly any maritime environment.

FEATURES

- Lightweight, Omni-directional Antenna can be Easily Mounted at any Convenient Location on Deck
- Global, Pole-to-pole Broadband Data & High-quality Voice in One (1) Low-cost Platform
- Three (3) Independent Voice Lines can be Used Simultaneously for Both Crew Calling & Business Operations
- Built to Perform in Tough Conditions & Backed by a Two (2) Year Limited Warranty
- Supported by the Iridium Global Service Program, a Limited Manufacturer's Warranty Providing Access to Around-the-clock Shipboard Service at Over One Hundred (100) Ports Worldwide

SERVICES

✓ Voice	✓ Prepaid Data	✗ Narrowband
✓ Prepaid Voice	✓ Postpaid Data	✗ Midband
	✓ IP Data	✓ Broadband

APPLICATIONS

- **Crew Welfare:** Fishing, Merchant
- **Operational Communications:** Fishing, Merchant
- **Passenger Communications:** Leisure, Tracking & Monitoring, Fishing

TECHNICAL SPECIFICATIONS

Size / Dimensions

- Antenna

Height	203 mm
Diameter	570 mm
- Below Deck Equipment (L x W x H)	200 x 250 x 55 mm

Weight

- Antenna	12.5 kg
- Below Deck Equipment	1.35 kg

Ingress Protection

- Antenna	IP56
- Below Deck Equipment	IP33

Operating Temperature   -30°C to + 70°C

Data Speed   Up to 134 Kbps Bi-directional

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Iridium Pilot® Land Station (End of Life)*

MANUFACTURER Iridium Communications Inc.   **MODEL #** BDU: 9701 / ADU: 9801

Iridium Pilot® Land Station gives you exceptional performance, durability and value on the ground, anywhere – even where there are no other options. The omni-directional antenna with no moving parts has been engineered to withstand extreme conditions and harsh environments.

FEATURES

- Delivers Reliable Communications Performance & Value in a Variety of Fixed & Mobile Applications

- Supports Data Applications such as Email, Web Browsing or Social Media, as well as Lines for up to Three (3) Simultaneous Voice Calls, Even During Data Transmission

- Rugged (IP56), Omni-directional Antenna can be Easily Mounted on your Building at Base-camp or on Platforms for Deployment in Remote Locations
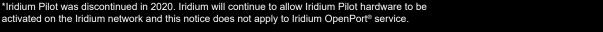
TECHNICAL SPECIFICATIONS

Size / Dimensions

- Antenna	
Height	203 mm
Diameter	570 mm
- Below Deck Equipment (L x W x H)	200 x 250 x 55 mm

Weight

- Antenna	12.5 kg
- Below Deck Equipment	1.35 kg

Ingress Protection

- Antenna	IP56
- Below Deck Equipment	IP33

Operating Temperature

-30°C to + 70°C

Data Speed

Up to 134 Kbps Bi-directional

SERVICES

✓ Voice	✓ Prepaid Data	✗ Narrowband
✓ Prepaid Voice	✓ Postpaid Data	✗ Midband
	✓ IP Data	✓ Broadband

APPLICATIONS

- **NGOs & IGOs:** Humanitarian & Emergency Response

- **Remote Communications:** Agriculture & Forestry, Construction & Mining, Government Land, Heavy Equipment, Scientific Research, Transportation, Energy & Utilities

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GOVERNMENT PRODUCTS

Iridium 9575A (U.S. Government Only)

MANUFACTURER Iridium Communications Inc.   **MODEL #** 9575A

The Iridium 9575A satellite phone offers proven reliability and industrial-grade design for use throughout the globe by the most demanding U.S. Government customers. The phone features diamond tread, tapered grip design for superior in-hand ergonomics for use in the toughest environments.

FEATURES

- Tough, Military-grade Design
- One-touch SOS Button & Two-Way Connectivity for Emergency Assistance
- Enhanced Mobile Satellite Service (EMSS) Fixed Price Contract with the U.S. Government
- Secure Voice (National Security Agency Type 1 Encryption)
- A Dedicated U.S. Government Gateway for Security & Management

TECHNICAL SPECIFICATIONS

Size / Dimensions	139 x 60.9 x 40.6 mm
Weight	246 g
Talk Time	Up to 5 Hours
Standby Time	Up to 24 Hours
Durability	Military-Grade Ruggedness (MIL-STD 810G)
Operating Temperature	-10°C to 55°C
Data Speed	2.4 Kbps

SERVICES

✓ Voice	✓ GEOS / SOS	✓ Narrowband
✓ SMS	✓ Location-Based Services (LBS)	✗ Midband
✗ Push-to-Talk	✓ Short Burst Data® (SBD®)	✗ Broadband

APPLICATIONS

- **Aviation Solutions:** Senior Leadership Communication, Medevac Communication
- **Government Land:** Command & Control, Battlefield Situational Awareness
- **Maritime:** Research & Science, Coast Guards, Ice Breakers

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IRIDIUM CONNECTED® PRODUCTS

Bivystick

MANUFACTURER bivy   **MODEL #** Bivystick Blue

Bivystick is a simple and affordable way to communicate via satellite. Turn your phone into a satellite communication device with no annual contracts and no activation fees. Bivystick enables you to send / receive text messages, call for help or share your location.

FEATURES

- Send & Receive Text Messages from Anywhere in the World
- Track & Share your Location with Friends & Family on Web-based Devices
- Download Detailed Three (3) or Seven (7) Day Weather Forecasts or Offline Maps for Your Trip
- Trigger an Interactive SOS with 24/7 Search & Rescue Monitoring Center to Call for Help when Needed
- 5200 mAh Backup Battery Enables You to Charge Your Smart Phone up to Two (2) Times

TECHNICAL SPECIFICATIONS

Size / Dimensions	47.62 x 142.87 x 28.57 mm
Weight	198.4 g
Battery Life	Up to 400 Hours at 10-Minute Tracking or 1-2 Complete Smartphone Charges
	Up to 3 Months when Powered Off
Ingress Protection	IP67
Operating Temperature	-12°C to +40°C
Data Speed	2.4 Kbps

SERVICES

✘ Voice	✓ GEOS / SOS	✓ Narrowband
✓ SMS	✘ Location-Based Services (LBS)	✘ Midband
✘ Push-to-Talk	✓ Short Burst Data® (SBD®)	✘ Broadband

APPLICATIONS

- **Crew Welfare:** Fishing
- Government Land
- **Lone Worker:** Construction, Mining, Energy, Utilities, Heavy Equipment, Transportation
- **NGOs & IGOs:** Humanitarian & Emergency Response
- **Passenger Communications:** Business Aviation, Maritime Leisure
- **Remote Communications:** Recreation Outdoors, Recreation Travel

Garmin InReach

MANUFACTURER Garmin   **MODEL #** 010-01735-10

You may venture off the grid, but you're never out of reach – as long as you're carrying an inReach SE+ or inReach Explorer+. These handheld satellite communicators are designed for the outdoor enthusiast who wants to roam farther and experience more – without compromising their loved ones' peace of mind. From back country experiences to international adventures, inReach provides communication, location sharing, navigation and critical SOS functions for anyone who loves getting away from it all, on land, water or in the skies.

FEATURES

- Rugged Handheld Satellite Communicators Enable Two-way Text Messaging*
- Trigger an Interactive SOS with the 24/7 Search & Rescue Monitoring Center
- Track & Share Location with Friends & Family - You Can Even Embed Your MapShare Page on a Blog, Website or Social Media
- inReach Explorer+ Device Adds Preloaded DeLorme® TOPO Maps with Onscreen GPS Routing Plus Built-in Digital Compass, Barometric Altimeter & Accelerometer

TECHNICAL SPECIFICATIONS

Size / Dimensions	68 x 164 x 38 mm
Weight	213 g
Battery Life	Up to 1,000 Hours at 10-Minute Tracking (Default)
	Up to 30 Days at 30-Minute Interval Power Save Mode
	Up to 3 Years when Powered Off
Ingress Protection	IPX7
Operating Temperature	-20° to +60°C
Data Speed	2.4 Kbps

SERVICES

✘ Voice	✓ GEOS / SOS	✓ Narrowband
✓ SMS	✘ Location-Based Services (LBS)	✘ Midband
✘ Push-to-Talk	✓ Short Burst Data® (SBD®)	✘ Broadband

APPLICATIONS

- Emergency & Navigation

- **Personal Tracking:** Recreation Outdoors, Recreation Travel, Maritime Leisure

- **Lone Worker:** Construction, Mining, Energy, Utilities, Heavy Equipment, Transportation

- Safety Services

GARMIN.

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Garmin InReach Mini

MANUFACTURER Garmin

MODEL # 010-01879-00

inReach Mini is your go-to connection for maintaining off-the-grid contact. It's a palm-sized satellite communicator for adventures where size and weight matter. inReach Mini lets you send and receive text messages, track and share your journey and, if necessary, trigger an SOS alert to contact the GEOS 24/7 emergency response team. With inReach connectivity, your family and friends will know they can stay in touch globally.

FEATURES

- Small, Rugged, Lightweight Satellite Communicator Enables Two-way Text Messaging*
- Trigger an Interactive SOS with the 24/7 Search & Rescue Monitoring Center
- Access Downloadable Maps, U.S. NOAA Charts, Color Aerial Imagery & More by Using the Free Garmin Earthmate® App & Compatible Devices
- Offers a Familiar Texting Experience from Your Phone or Tablet

TECHNICAL SPECIFICATIONS

Size / Dimensions	51.7 x 99 x 26.1 mm
Weight	100 g
Battery Life	Up to 90 Hours at 10-minute Tracking (Default)
	Up to 24 Days at 30-minute Tracking Power Save Mode
	Up to 1 Year when Powered Off
Durability	MIL-STD-810F
Ingress Protection	IPX7
Operating Temperature	-20° to +60°C
Data Speed	2.4 Kbps

SERVICES

✘ Voice	✓ GEOS / SOS	✓ Narrowband
✓ SMS	✘ Location-Based Services (LBS)	✘ Midband
✘ Push-to-Talk	✓ Short Burst Data® (SBD®)	✘ Broadband

APPLICATIONS

- Emergency & Navigation
- **Personal Tracking:** Recreation Outdoors, Recreation Travel, Maritime Leisure
- **Lone Worker:** Construction, Mining, Energy, Utilities, Heavy Equipment, Transportation
- Safety Services

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HawkEye Personal Tracker

MANUFACTURER NAL Research   **MODEL #** HEPT00KT

The HawkEye Personal Tracker makes the safety and tracking of workers in remote locations easy. It works with SkyRouter, Blue Sky Network's interactive web portal, for mapping/tracking, 2-way data communication, and emergency alerts. The HawkEye PT is well suited for any portable global tracking application.

FEATURES

• Low Cost, Portable GPS Personal Tracker with Two-way Messaging Capabilities

• Small Form Factor & Ultra-low Power Consumption Designed for Mobility - Perfectly Suited for Moving from Vehicle to Vehicle, Taking Onboard Aircraft & Vessels, or Even on Long Hikes

• Device can "Wake Up" & Send Position Reports Automatically (>1200 on One Battery Charge)

• Quick Position Button Sends an Alert with Current Coordinates to SkyRouter & Forwards the Alert to Authorized Personnel / Contacts for Personal Safety

TECHNICAL SPECIFICATIONS

Size / Dimensions	101.6 x 55.88 x 20.32 mm
Weight	184.2 g
Data / Power Interface	USB & Bluetooth
Input Voltage Range	2.7VDC to 5.5VDC (Standard USB)
Ingress Protection	IP67
Operating Temperature	-35° to +55°C
Data Speed	2.4 Kbps

SERVICES

✘ Voice	✔ GEOS / SOS	✔ Narrowband
✔ SMS	✘ Location-Based Services (LBS)	✘ Midband
✘ Push-to-Talk	✔ Short Burst Data® (SBD®)	✘ Broadband

APPLICATIONS

• **Tracking & Monitoring:** Blue Force Tracking, Government Land

• **Cabin:** Government Air

• **Contract:** EMSS

• **First Response, NGOs & IGOs:** Humanitarian & Emergency Response

• **Lone Worker:** Agriculture, Forestry, Construction, Mining, Energy, Utilities, Heavy Equipment, Transportation

• **Operational Communications:** Business Aviation, Fishing, Merchant, Rotorcraft, Commercial Aviation

• **Passenger Communications:** Business Aviation, Leisure, Maritime Leisure, Rotorcraft, Government Sea

• **Personal Tracking:** Recreation Outdoors, Recreation Travel

• **Remote Communications:** Scientific Research, Energy, Utilities, Secure Communications

SHOUT nano

MANUFACTURER NAL Research   **MODEL #** 433-92681-001

SHOUT nano is a handheld, global, two-way satellite communication device and emergency beacon. It is designed with ultra-low power consumption electronics, and equipped with an LCD display and an on-screen keyboard allowing transmission of free text and canned messages. Data is sent in either standard or 256-bit AES encrypted format.

FEATURES

- Internal 1950 mAh Rechargeable Li-ion Battery
- Programmable to Periodically Wake Up from Sleep to Send its Position Report to a Command Center
- Enhanced Security Features Keep your Data Safe, Including either AES 256-bit Encryption or PECOS Encryption Formats to Include Brevity Codes

TECHNICAL SPECIFICATIONS

Size / Dimensions	102 x 56 x 20 mm
Weight	184g
Battery Life	Up to 2 Months at 1 Hour Interval (About 1,200 Reports)
Ingress Protection	IP65
Operating Temperature	-40°C to +85°C
Data Speed	2.4 Kbps

SERVICES

✘ Voice	✔ GEOS / SOS	✔ Narrowband
✔ SMS	✘ Location-Based Services (LBS)	✘ Midband
✘ Push-to-Talk	✔ Short Burst Data® (SBD®)	✘ Broadband

APPLICATIONS

- **Contract:** EMSS
- **Lone Worker:** Agriculture & Forestry, Construction, Mining, Energy, Utilities, Heavy Equipment, Transportation
- **Personal Tracking:** Recreation Outdoors, Recreation Travel
- **Remote Communications:** Recreation Travel
- **Tracking & Monitoring:** Blue Force Tracking, Government Land

RockSTAR

MANUFACTURER Rock Seven   **MODEL #** ROCK7-XMARX

The RockSTAR two-way Messenger is a truly global communication device and tracking system. It allows you to send and receive short messages from anywhere on Earth with a clear view of the sky. It works far beyond the reach of Wi-Fi and GSM networks.

FEATURES

- Pair with Your Smartphone or Bluetooth-enabled Tablet to Send Short Messages or Update Your Social Media Status from Anywhere in the World
- Built-in Tracker will Wake up at Set Intervals to Obtain Your Position & Transmit it Back to an Easy-to-Use Web-based Portal
- Long Battery Life Delivers Over 2,500 Transmissions on a Single Charge
- Recharge Your Device or Transfer Data Using a Standard USB Cable

TECHNICAL SPECIFICATIONS

Size / Dimensions	144 x 76 x 36mm (Plus Antenna)
Weight	303 g
Battery Life	Up to 3 Weeks Transmitting Every 15 Minutes
	Up to 3 Months Transmitting Once per Hour
	Up to 12 Months Transmitting Once per Day
Durability	MIL-810 F/G
Ingress Protection	IP67
Operating Temperature	-30° to +60°C
Data Speed	2.4 Kbps

SERVICES

- ✘ Voice
- ✓ SMS
- ✘ Push-to-Talk
- ✓ GEOS / SOS
- ✘ Location-Based Services (LBS)
- ✓ Short Burst Data® (SBD®)
- ✓ Narrowband
- ✘ Midband
- ✘ Broadband

APPLICATIONS

- **Remote Communications:** Agronomy, Agriculture, Forestry
- **Crew Welfare:** Fishing, Merchant
- **Lone Worker:** Construction, Mining, Energy, Utilities, Heavy Equipment, Transportation
- **Personnel Tracking:** NGOs, Military, First Response
- **On-Board Communications:** Maritime Leisure
- **Personal Tracking:** Recreation Outdoors, Recreation Travel
- Safety Services
- Tracking & Monitoring

ROCK SEVEN
LOCATION COMMUNICATION

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Somewear Global Hotspot

MANUFACTURER Somewear Labs, Inc.   **MODEL #** SWL-1

The Somewear Global Hotspot gives any smartphone the ability to keep working when cellular service fails. With 100% global satellite data coverage, the Global Hotspot is an asset for every mission from a weekend adventure to a remote work site.

FEATURES

- On-board GPS & Interval Location Tracking Make it Simple for People to Follow Your Path in Real Time

- Two-way Satellite Text Messaging Works Seamlessly Across Wi-Fi, Cellular & Satellite Connectivity

- 24/7 SOS Monitoring & Support Through GEOS Worldwide

- Web App for Friends & Family to Easily Chat & View Your Location

TECHNICAL SPECIFICATIONS

Size / Dimensions	76.2 x 91.44 x 20.32 mm
Weight	113.4 g
Battery Life	Up to 4.5 Days of Regular Use
Durability	MIL-STD-810
Ingress Protection	IPX7
Operating Temperature	-20°C to +60°C
Data Speed	2.4 Kbps

SERVICES

✘ Voice	✓ GEOS / SOS	✓ Narrowband
✓ SMS	✘ Location-Based Services (LBS)	✘ Midband
✘ Push-to-Talk	✓ Short Burst Data® (SBD®)	✘ Broadband

APPLICATIONS

- Operational Communications
- **Lone Worker:** Construction, Mining, Energy, Utilities, Heavy Equipment, Transportation
- Personal / Personnel Communication

SOMEWEAR

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Zoleo™

MANUFACTURER ZOLEO Inc.   **MODEL #** ZL1000

Whether for connectivity and safety at work, global travel or outdoor recreation, use ZOLEO™ to enjoy seamless global messaging at a price you can afford. ZOLEO works with your smartphone or tablet to provide truly seamless messaging that follows you out of cellular coverage, and back again. It also includes added personal safety features you can count on world-wide, and a dedicated SMS number and email address to make it easy for contacts to get in touch.

FEATURES

- Global 2-way Text, Email & App-to-App Messaging
- Advanced Safety Features Include Sharing Your GPS Location, Check-in Capabilities, & SOS Alerting with 24/7 Monitoring
- Seamless Messaging Over Satellite, Cellular & Wi-Fi Means You'll Never Miss a Message, Even if Your ZOLEO Device Isn't On
- Offers a Familiar Texting Experience from Your Phone or Tablet

SERVICES

✘ Voice	✓ GEOS / SOS	✓ Narrowband
✓ SMS	✘ Location-Based Services (LBS)	✘ Midband
✘ Push-to-Talk	✓ Short Burst Data® (SBD®)	✘ Broadband

APPLICATIONS

- **NGOs & IGOs:** Humanitarian & Emergency Response
- **Passenger Communications:** Maritime Leisure
- **Remote Communications:** Recreation Outdoors, Recreation Travel

TECHNICAL SPECIFICATIONS

Size / Dimensions	90.9 x 66.0 x 26.9 mm
Weight	150 g
Battery Life	Up to 200 Hours
Durability	MIL-STD 810G
Ingress Protection	IP68
Operating Temperature	-20°C to +55°C
Data Speed	2.4 Kbps

Visit www.Iridium.com to
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Products & Services