

ASE PUSH-TO-TALK



Expanding and Transforming
Iridium Push-To-Talk

www.ase-corp.com

ASE PTT EQUIPMENT

rev 0.01



From In-Vehicle installations to Headquarters, ASE has the right solution.

ASE ENHANCES THE ENTIRE "ECOSYSTEM" OF PUSH-TO-TALK

ASE TRANSFORMS **IRIDIUM PTT**

IRIDIUM PTT. The Iridium PTT service is now fully functional!

For the first time ever, small groups can have light powerful, and secure world-wide communications for teams.

The power to Push-To-Talk and communicate across the globe in multiple environments and settings offers a multitude of options for organizations that are local to global. ASE has been involved from the beginning in

developing solutions that make the IRIDIUM PTT network accessible from inside buildings, moving or stationary vehicles.

ASE products are designed from engagement with many professionals in the field and since the service is new, there are a great many 'unmet needs' in the marketplace. If you can't see what you need in the following pages, We look forward to helping you connect easily and seamlessly.

Contact us at :

info@ase-corp.com

ASE PTT SOLUTIONS



HEADQUARTERS

We are specialists in providing Docking Stations and Antenna Options in-building.



VEHICLES

Choose Vehicle Permanent or Temporary Solutions for your organizations needs.



ON-THE-GO -"FLY AWAY"

Complete PTT Solutions for On-the-Go or "Fly away kits" to transform the Iridium 9575PTT into an on the go solution.



IN-FIELD ON-THE-GROUND

Our solutions transform the 9575PTT Handset into a natural use case for those used to Land-Mobile Radio (LMR) options.



COMPLETE SOLUTIONS

Docking Stations, Dual-Mode Antennas, fittings, PTT Accessories. We have the expertise.



INTEROPERABILITY

Our solutions let you bridge the gap between Satellite Comms Land-Mobile-Radios through interoperability.

ASE HEADQUARTERS PUSH-TO-TALK (PTT) ASE-9575P-HQ



SUMMARY OF KEY FEATURES

- PROVIDES OFFICE/IN-BUILDING SOLUTION FOR IRIDIUM PUSH-TO-TALK (PTT)
- NATURAL USE WITH PALM/SPEAKER MIC.
- EXTEND USE WITH ANALOG PHONE ANYWHERE IN BUILDING (USE # KEY FOR PTT)
- EASY CONNECTION TO IRIDIUM ANTENNA FOR INDOOR USE
- CONNECT GPS ANTENNA (OPTIONAL USE OF GPS ANTENNA-SEE DISCUSSION)
- RELIABLE ASE EQUIPMENT

ASE-9575P-HQ HEADQUARTERS Kit

Shown below are the components that are included with, or needed for the ASE-9575P-HQ KIT.



Antenna Solutions

Purchase separately-Antennas and cable systems for HQ applications.



Power Brick AC/DC

Reliable AC/DC Power Supply.
Please specify Country Type.
Included in the kit.



Office Mount

Mounting for Flexible Installation.
Pedestal and RAM Mount together.
Included in the kit.



ASE-9575P-HQ

Voltage	10-32 VDC	Cable or DC Adapter
Power	12 Watts	Active Peak
Antenna Connections	Iridium TNC-F	GPS SMA-F
Operating Temp	-10 to 55 C	
Dimensions	13 x 6 x 4.5 in.	33 x 15 x 11.5 cm
Weight	3.5 lbs.	1.6 kg
Shipping Weight	6.0 lbs.	2.7 kg
Shipping Dimensions	16 x 14 x 8 in.	41 x 36 x 20 cm

IRIDIUM 9575 PTT/VOICE HEADQUARTERS DOCKING STATION

rev 0.01

ADDITIONAL FEATURES/COMPONENTS



Easy Office Integration

Use with Office Phones

#-Acts as the PTT Button Press
Run Long Distances into
Buildings easily



PTT Eco-System

Integrate easily with the field.

ASE Vehicle Solutions.
ASE Portable Solutions.
ASE Interoperability Solutions.

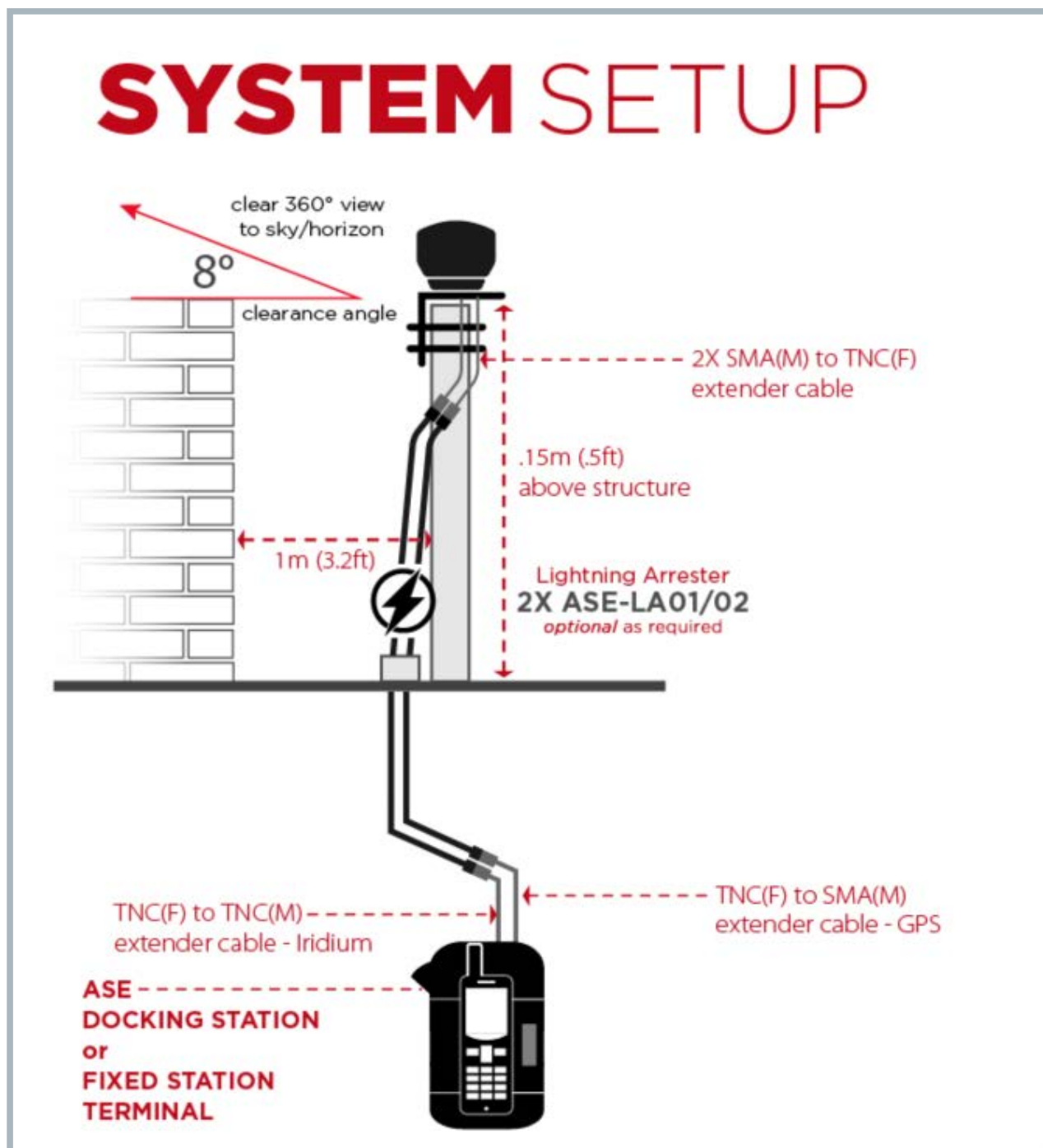


Antennas go the Distance

Passive Antennas up to 20 Meters. Active Antennas up to 105M

**Antennas not included-
Purchase separately.**

EXAMPLE INSTALLATION



HQ INSTALLATION DIAGRAM

PTT PACKAGES and COMPONENTS-HQ

SHIPPING INFORMATION

ASE-9575P-HQ-P	Standard/Push to Talk Docking Station with POTS and GPS - includes dock, office mount, fist speaker/mic. RECOMMEDED FOR PUSH-TO-TALK applications	
	Harmonized Code - HTS#: 8518.30.2000 ECCN: EAR99 Shipping Dimensions: 16 x 14 x 8, 6 LBS (41cm x 36cm x 20cm, 3 kg)	
ASE-9575P-HQ	Standard/Push to Talk Docking Station with POTS and GPS - includes dock, office mount. RECOMMENDED FOR VOICE OR INTEGRATE WITH OFFICE PHONE applications	
	Harmonized Code - HTS#: 8518.30.2000 ECCN: EAR99 Shipping Dimensions: 16 x 14 x 8, 6 LBS (41cm x 36cm x 20cm, 3 kg)	
ASE-DA12	DA12 - 40 ft (12 m) 2 x LMR400 cable, Dual (Irid/GPS) antenna	
	Harmonized Code - HTS#: 8517.70.0000 ECCN: EAR99 Shipping Dimensions: 16 x 14 x 8, 12 LBS (41cm x 36cm x 20cm, 5 kg)	
ASE-DA20	DA20 - 66 ft (20 m) 2 x LMR600 cable, Dual (Irid/GPS) antenna	
	Harmonized Code - HTS#: 8517.70.0000 ECCN: EAR99 Shipping Dimensions: 20 x 16 x 14, 20 LBS (51cm x 41cm x 36cm, 9 kg)	
ASE-DA40	DA40 - 131 ft (40 m) 2 x RG214 cable, active antenna, and GPS antenna	
	Harmonized Code - HTS#: 8517.70.0000 ECCN: EAR99 Shipping Dimensions: 20 x 16 x 14, 20 LBS (51cm x 41cm x 36cm, 14 kg)	
ASE-DA70	DA70 - 230 ft (70 m) 2 x LMR400 cable, active antenna, and GPS antenna	
	Harmonized Code - HTS#: 8517.70.0000 ECCN: EAR99 Shipping Dimensions: 22 x 18 x 16, 52 LBS (56cm x 46cm x 41cm, 24 kg)	
ASE-LA01	Lightning Arrestor - for active antenna	
	Harmonized Code - HTS#: 8517.70.0000 ECCN: EAR99 Shipping Dimensions: 8 x 8 x 8, 2 LBS (20cm x 20cm x 20cm, 1 kg)	

GPS ANTENNA FOR PTT?-A DISCUSSION

Do I really need a GPS Antenna for a Headquarters Installation?

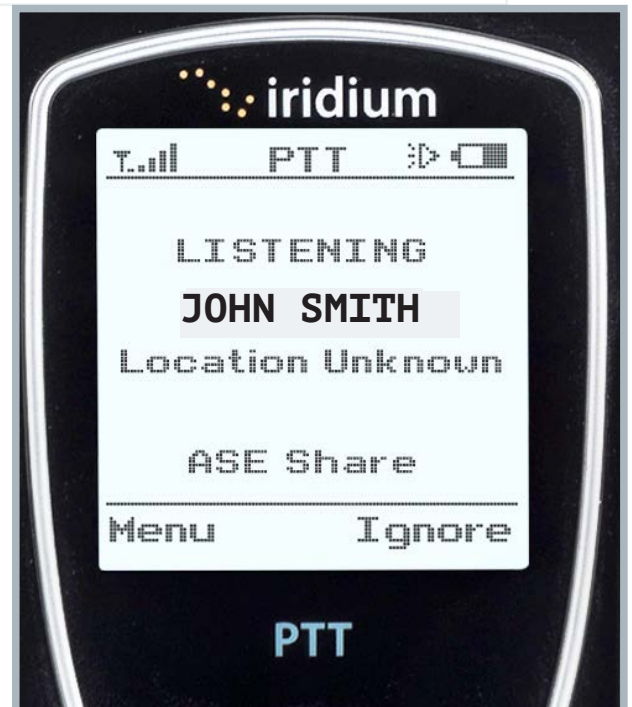
NOT REALLY

Many people think that the GPS antenna is required for the Talk-Group coverage, but this isn't true. Iridium has its own GPS derived from doppler on-board the satellites. The GPS for the 9575 is used for the SOS-distress button on the 9575 Handsets.

What if I don't use a GPS Antenna? What will happen?



WITH GPS ANTENNA-POSITION KNOWN



WITHOUT GPS ANTENNA-POSITION UNKNOWN

Shown on the left is a PTT Screen that has a GPS antenna connected. Note that the distance is 232 km to the Handset that is speaking. If we disconnect the antenna, shown on the right the same PTT screen shows "Location Unknown". The System still works fine without the GPS antenna.

A "WORK-AROUND"--SAVE COST, STILL GET FULL FUNCTIONALITY

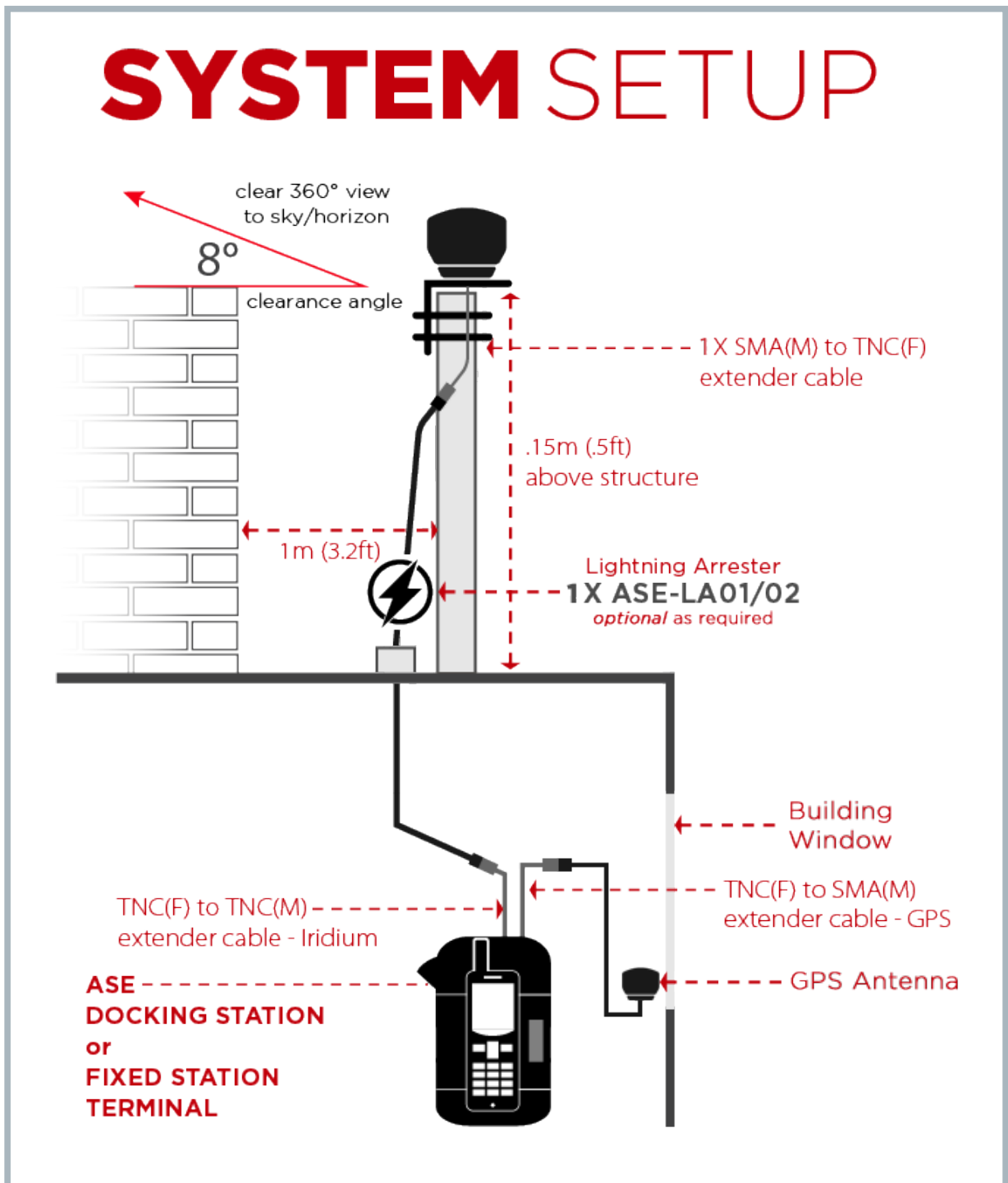
Shown on the next page is a "work-around" that preserves all functionality while saving the additional cost of purchasing and installing a GPS antenna on the rooftop.

GPS ANTENNA-CONTINUED....

POSSIBLE "WORK-AROUND"

Keep in mind, the first thing to consider is to move the Docking Station as close to the upper floors of a building as possible and route an analog phone to where you would like the communication to occur. If this isn't possible, shown below is a quick "work-around."

USE A INEXPENSIVE GPS ANTENNA NEAR A WINDOW.



ASE VEHICLE PTT PUSH-TO-TALK ASE-9575P-VEH



SUMMARY OF KEY FEATURES

- PROVIDES IN-VEHICLE SOLUTION FOR IRIDIUM PUSH-TO-TALK (PTT)
- NATURAL USE WITH PALM/SPEAKER MIC.
- RUGGED CONNECTORS FOR WIDE RANGING VEHICLE VOLTAGES-9 TO 32VDC
- EASY CONNECTION TO VEHICLE ANTENNA FOR IRIDIUM AND GPS
- SUPPORTS THIRD-PARTY PTT ACCESSORIES
- ALLOWS USE OF IRIDIUM PTT USE WHILE MOVING. NO NEED TO STOP VEHICLE.
- NO NEED TO EXIT VEHICLE TO COMMUNICATE

ASE AND IRIDIUM PUSH-TO-TALK (PTT) Iridium 9575 PTT Vehicle Installation Kit

Shown below are the components that ship with, or can be used with the ASE-9575P-VEH-KIT.

COMPONENT DETAILS



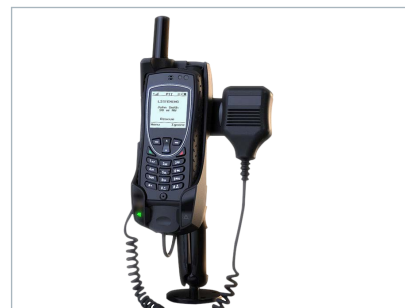
Dual Mode Antenna

Low Profile Dual Mode Iridium +GPS Antenna with 5M Low Loss Cable



Rugged 10-32VDC

Ruggedized connectors for wide ranging Power Supplies.



RAM Vehicle Mounting

Ram Mounting for Flexible Installation.



ASE-9575P-VEH

Voltage	10-32 VDC	Cable or DC Adapter
Power	12 Watts	Active Peak
Antenna Connections	Iridium SMA-F	GPS SMA-F
Operating Temp	-10 to 55 C	
Dimensions	13 x 6 x 4.5 in.	33 x 15 x 11.5 cm
Weight	3.5 lbs.	1.6 kG
Shipping Weight	6.0 lbs.	2.7 kG
Shipping Dimensions	16 x 14 x 8 in.	41 x 36 x 20 cm

IRIDIUM 9575 VOICE OR PTT VEHICLE DOCKING STATION

ADDITIONAL FEATURES/COMPONENTS



Dual Antenna Options.

- ▶ Magnetic-Low Cost Available.
 - ▶ ASE Recommends DMVA05
- ASE DMVA05-Dual Mode**
Ships with 5 Meter Cable



Rugged Expandable

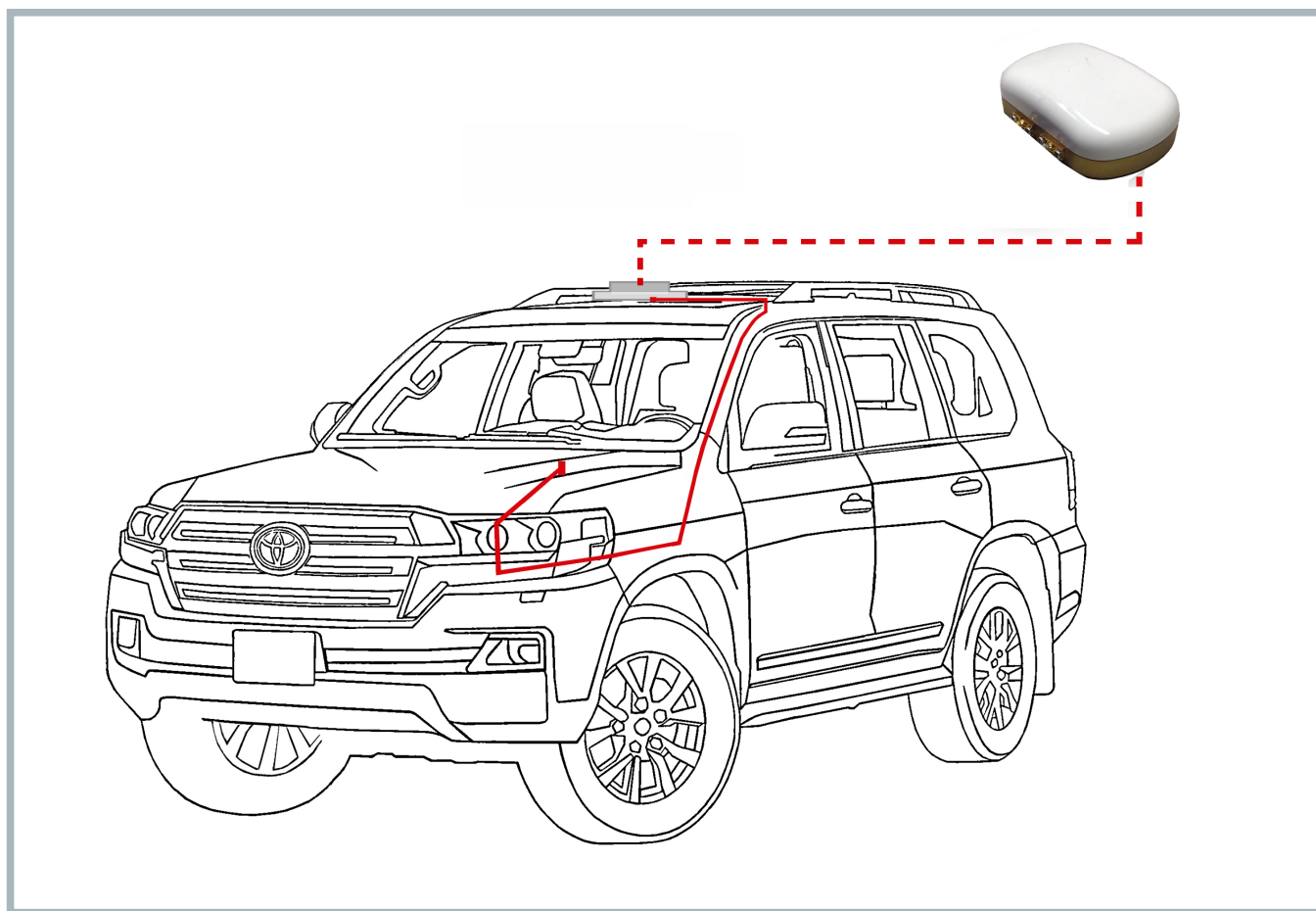
Perfect for High Noise Environment.
Third Party Headphones.
Use S2 Connectors.
Contact us for Assistance.



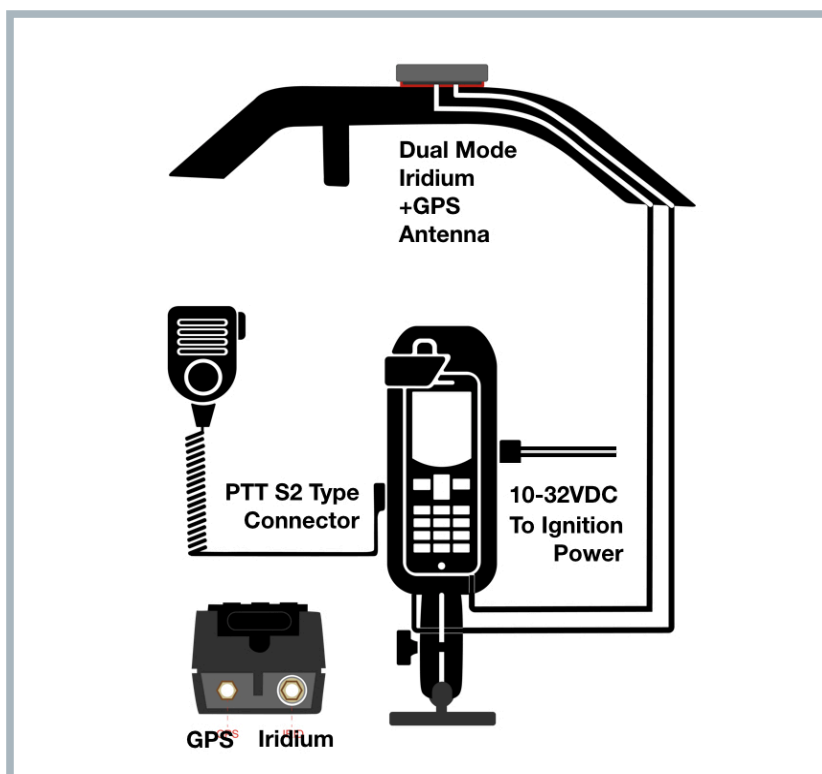
PTT Components.

Any S2 Connector
Includes Blue Tooth Accessories
Search for S2 connectors.
Contact us for Assistance.

INSTALLATION DETAILS-VEHICLE



**EXAMPLE ANTENNA
CABLE ROUTING**



SCHEMATIC OF CONNECTIONS

ALSO CONSIDER THESE FOR VEHICLES-**GRAB AND GO**



ASE-**BAGDOCK** ASE-9575P BAGDOCK



ASE-**BOXDOCK** ASE-9575P BOXDOCK

PTT PACKAGES and COMPONENTS

EQUIPMENT AND SHIPPING INFORMATION

ASE-
9575P-VEH

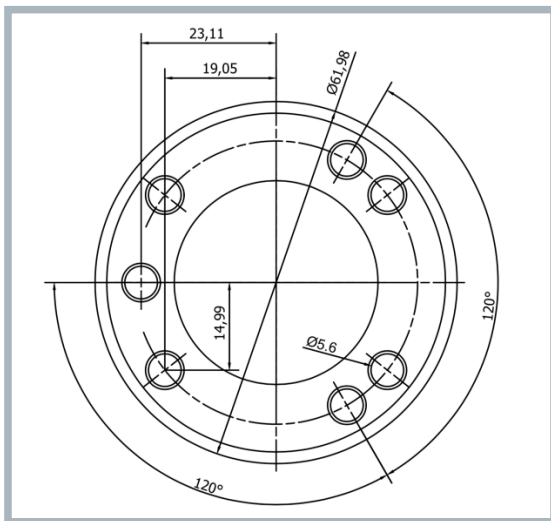
Standard/Push to Talk Docking Station with POTS and GPS - includes dock, RAM Mount, fist speaker/mic

Harmonized Code - HTS#: 8518.30.2000 ECCN: EAR99

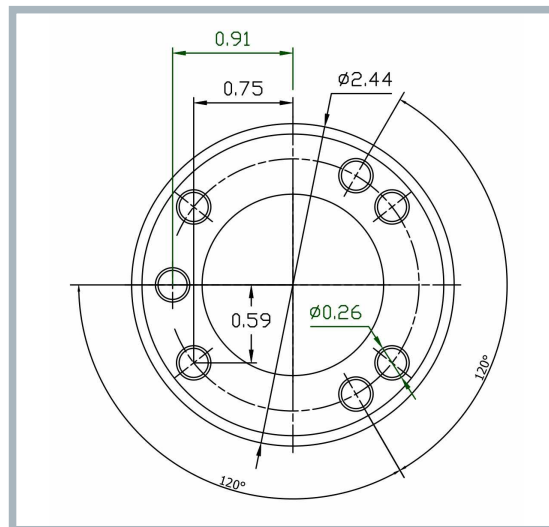
Shipping Dimensions: 16 x 14 x 8, 6 LBS (41 cm x 36 cm x 20 cm, 3 kg)



ADDITIONAL INFORMATION



RAM MOUNTING-METRIC



RAM MOUNTING-INCHES

ASE 9575 BAGDOCK PUSH-TO-TALK



SUMMARY OF KEY FEATURES

- COMPLETE ON-THE-GO IRIDIUM PUSH-TO-TALK (PTT) KIT
- NATURAL USE WITH PALM/SPEAKER MIC.
- MAGNETIC MOUNT DUAL MODE (IRIDIUM/GPS) ANTENNA
- EASY TEMPORARY INTEGRATION INTO VEHICLE-OR FIELD CAMP
- BUILT-IN RECHARGABLE BATTERY-
- CANVAS BAG PROVIDES EASY STORAGE AND TRANSPORTATION

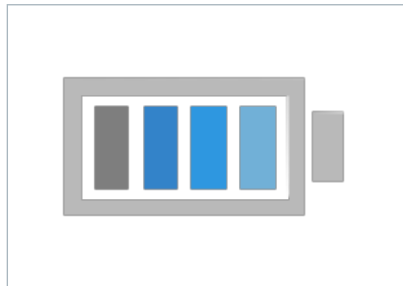
ASE AND IRIDIUM PUSH-TO-TALK (PTT) Iridium 9575 Portable BAGDOCK

COMPONENT DETAILS

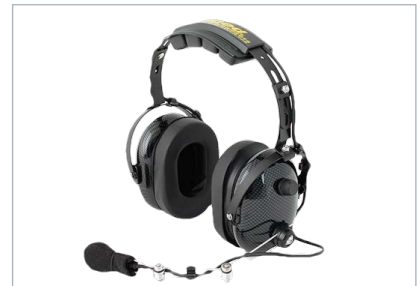
Shown below are the components that ship with, or integrate easily into the ASE-9575P-BAGDOCK KIT.



Magnetic Mount Antenna
Magnetic Mount Antenna-Use on Vehicles temporarily or easily use in field camp.



Integrated Battery
Stand alone operation.
No need for additional power pack.



Use Third Party Gear
Connect other PTT accessories easily. Contact us for more info!



ASE-BAGDOCK

Voltage	6 VDC	Uses Iridium Charger
Power	12 Watts	Active Peak
Connections	Iridium SMA-F	GPS SMA-F
Operating Temp	-10 to 55 C	
Dimensions	13 x 6 x 4.5 in.	33 x 15 x 11.5 cm
Weight	3.5 lbs.	1.6 kG
Shipping Weight	6.0 lbs.	2.7 kG
Shipping Dimensions	16 x 14 x 8 in.	41 x 36 x 20 cm

ASE 9575P-BAGDOCK ON THE GO SOLUTION

ADDITIONAL FEATURES/COMPONENTS



Uses the Iridium Charger
Uses the 6V Charger for the 9575



Use on the Go!
Great for Vehicle applications.
Emergency responders.

SYSTEM OVERVIEW

SYSTEM SETUP

**clear 360° view
to sky/horizon**

Attach to metal ground
plane for best results -
i.e. automobile,
corrugated roofing, etc

Palm Spk/Mic

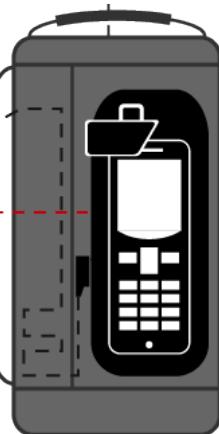


6V, 1.5A

Use Iridium supplied 6V wall
charger or DC vehicle charger
-charges both 9575 phone
and dock



Magnetic mount, dual mode
(IRID/GPS) antenna



CHARGING----

AUDIO----



GPS

IRID



RJ45
External
Accessories

PTT PACKAGES and COMPONENTS

SHIPPING INFORMATION

ASE-
9575P-BAGDOCK

Standard/Push to Talk Docking Station with GPS - includes docking station, palm-speaker/mic. 3M (10ft) magnetic mount GPS/IRID antenna, travel bag, DC power cord, and user manual. Includes integrated rechargeable battery.

Harmonized Code - HTS#: 8518.30.2000 ECCN: EAR99

Shipping Dimensions: 16 x 14 x 8, 6 LBS (41cm x 36cm x 20cm, 3 kg)



ASE 9575 BOXDOCK PUSH-TO-TALK (PTT) ASE-9575P-BOXDOCK



SUMMARY OF KEY FEATURES

- COMPLETE ON-THE-GO IRIDIUM PUSH-TO-TALK (PTT) KIT
- NATURAL USE WITH PALM/SPEAKER MIC. OR USE HEADPHONEES
- MAGNETIC MOUNT DUAL MODE (IRIDIUM/GPS) ANTENNA
- EASY TEMPORARY INTEGRATION INTO VEHICLE-OR FIELD CAMP
- BUILT-IN RECHARGABLE BATTERY-
- "PELI" STYLE CASE PROVIDES RUGGED STORAGE AND TRANSPORTATION

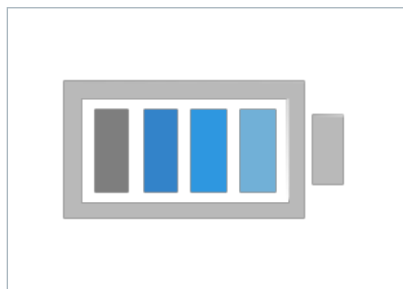
ASE AND IRIDIUM PUSH-TO-TALK (PTT) Iridium 9575 Portable BOXDOCK

COMPONENT DETAILS

Shown below are the components that ship with, or integrate easily into the ASE-9575P-BAGDOCK KIT.



Magnetic Mount Antenna
Magnetic Mount Antenna-Use on Vehicles temporarily or easily use in field camp.



Integrated Battery
Stand alone operation.
No need for additional power pack.



Use Third Party Gear
Connect other PTT accessories easily. Contact us for more info!



ASE-BAGDOCK

Voltage	6 VDC	Uses Iridium Charger
Power	12 Watts	Active Peak
Connections	Iridium SMA-F	GPS SMA-F
Operating Temp	-10 to 55 C	
Dimensions	13 x 6 x 4.5 in.	33 x 15 x 11.5 cm
Weight	3.5 lbs.	1.6 kG
Shipping Weight	6.0 lbs.	2.7 kG
Shipping Dimensions	16 x 14 x 8 in.	41 x 36 x 20 cm

ASE 9575P-BOXDOCK ON THE GO SOLUTION

ADDITIONAL FEATURES/COMPONENTS



Uses the Iridium Charger
Uses the 6V Charger for the 9575



Use on the Go!
Great for Vehicle applications.
Emergency responders.



External Panel
Allows for Case to be Closed.
Charging Indication Easy to Read.

SYSTEM OVERVIEW

SYSTEM SETUP

**clear 360° view
to sky/horizon**

Attach to metal ground
plane for best results -
i.e. automobile,
corrugated roofing, etc

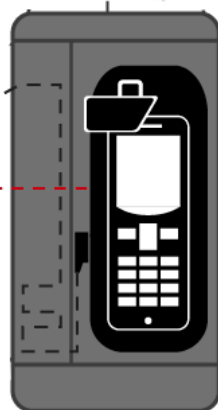
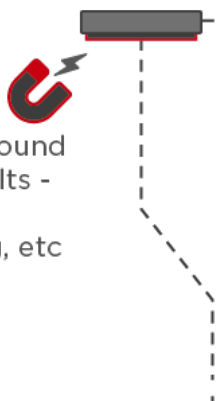
Palm Spk/Mic



6V, 1.5A

Use Iridium supplied 6V wall
charger or DC vehicle charger
-charges both 9575 phone
and dock

Magnetic mount, dual mode
(IRID/GPS) antenna



External Panel

Allows for Case to be Closed in use.
Charging Indication Easy to Read.
RED when charging. GREEN when
charged.



PANEL DETAILS

PTT PACKAGES and COMPONENTS

SHIPPING INFORMATION

ASE-
9575P-BOXDOCK

Standard/Push to Talk Docking Station with GPS - includes docking station, palm-speaker/mic. 3M (10ft) magnetic mount GPS/IRID antenna, travel bag, DC power cord, and user manual. Includes integrated rechargeable battery.

Harmonized Code - HTS#: 8518.30.2000 ECCN: EAR99

Shipping Dimensions: 16 x 14 x 8, 6 LBS (41cm x 36cm x 20cm, 3 kg)





TRANSFORM AND ENHANCE THE IRIDIUM 9575PTT HANDSET ASE PTT-LINK

DETAILS

Shown below are the components that are included with, or can be used for the ASE-PTT LINK.



Small, Lightweight!
Slightly Larger than a Credit Card!



Amplified Audio
Up to 40 Hours standard talk. Up to 8 Hours Under AMPLIFY mode.



Optional Holster
Integrates with ASE Modified Holster (Order P/N ASE-HOLSTER).



(Shown with 9575 Handset and dongle-not included)

ASE-PTT-LINK

Voltage	6 VDC	Uses Iridium Charger
Power	1 Watts	Active Peak
Connections	S2-PTT	Mini-USB-iridium Dongles
Operating Temp	-10 to 55 C	
Dimensions	6 x 4 x 1 in.	15.2 x 10.1 x2 .5 cm
Weight	0.25 lbs.	0.6 kG
Shipping Weight	6.0 lbs.	2.7 kG
Shipping Dimensions	12 x 12x 3 in.	31 x 31 x 7.5 cm

ASE 9575 PTT-LINK EXPANSION ACCESSORY

rev 0.01

ADDITIONAL FEATURES/COMPONENTS



Uses the Iridium Charger
Uses the 6V Charger for the 9575



Rechargeable Battery
Integrated battery included.
40 Hours Operation.
8 Hours in Amplified Mode.

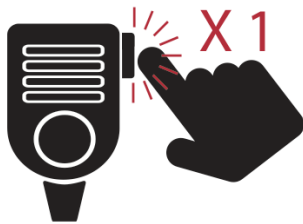
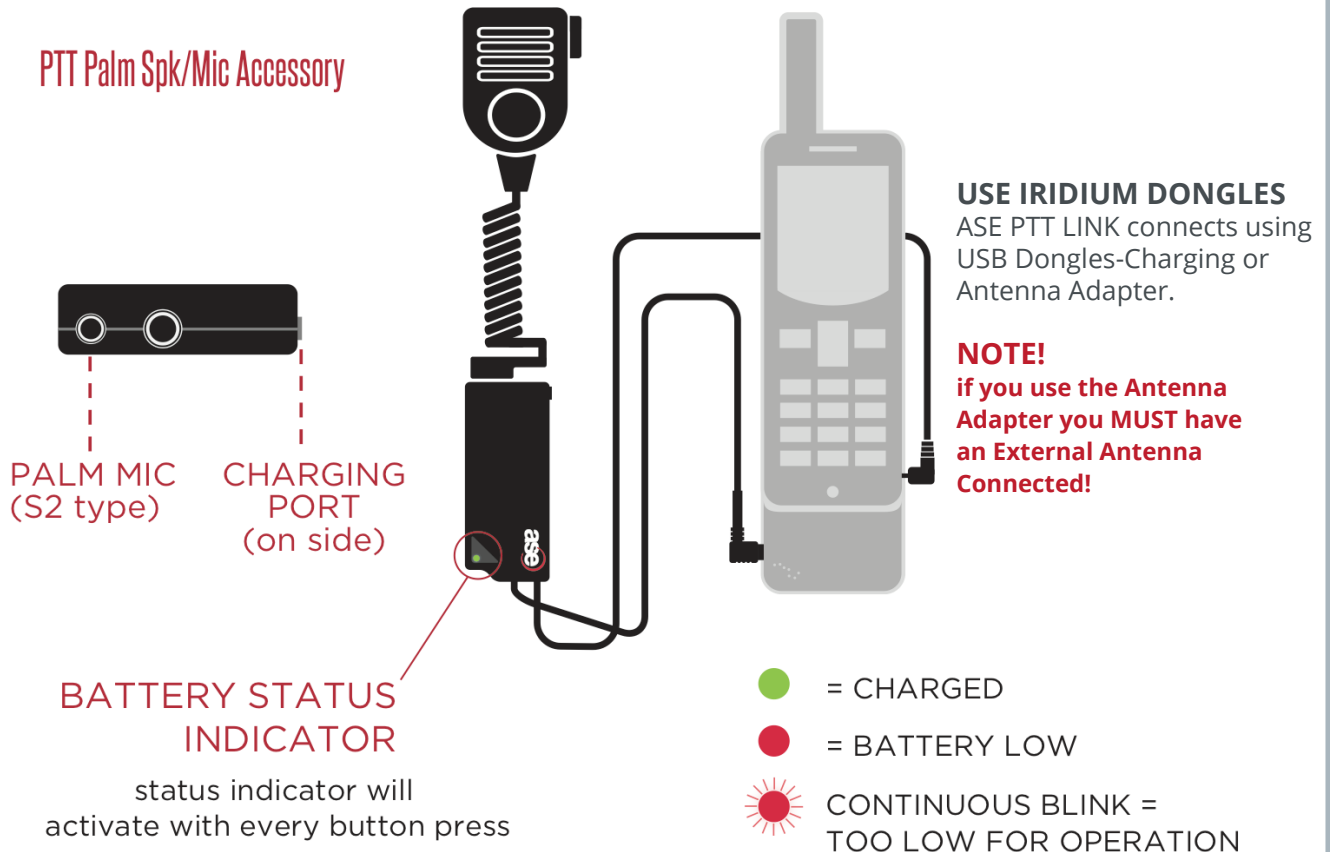


Third Party Accessories
Connect other PTT accessories
Search ICOM-S2.
Contact us for more help!

SYSTEM OVERVIEW

SYSTEM SETUP

PTT Palm Spk/Mic Accessory



INSTANT ON

Device wakes up on **Single PTT Press**

SUMMARY OF KEY FEATURES

- PROVIDES AN "ORGANIC" LMR (RADIO) EXPERIENCE
- AMPLIFIES AUDIO-GREAT FOR NOISY ENVIRONMENTS
- LIGHTWEIGHT
- INTEGRATED RECHARGABLE BATTERY
- CONNECT TO ANY VIRTUALLY ANY OTHER PTT ACCESSORY
- 40 HOURS OPERATION-STANDARD MODE/ 8 HOURS AMPLIFIED

PTT PACKAGES and COMPONENTS

EQUIPMENT AND SHIPPING INFORMATION



ASE-PTT-LINK - Enhancement and Expansion Accessory for the Iridium 9575 PTT Handset, RECOMMENDED FOR PUSH-TO-TALK applications. Includes PTT Link Module, Palm/Speaker Mic.

Harmonized Code - HTS#: 8518.30.2000 ECCN: EAR99

Shipping Dimensions: 12 x 12 x 3, 6 LBS (41cm x 36cm x 20cm, 2.7 kg)





ASE XLINK RADIO TO SATELLITE

SUMMARY OF KEY FEATURES

- CONNECT LAND-MOBILE-RADIOS (LMR) TO IRIDIUM PTT NETWORK
- MOST RADIOS SUPPORTED-CONTACT US WITH YOUR MODEL NUMBERS
- CONNECT LMR NETWORKS ANYWHERE IN THE WORLD WITH IRIDIUM SATELLITE
- SYSTEM ACTS AS A "PORTABLE" AND QUICK-DEPLOY REPEATER
- CAN BE USED WITH ANY ASE PTT DOCK-FIELD OR BUILDING INSTALLATION
- KEY--NO "BONK" TONE FROM THE FIELD IF MESSAGE IS UNSUCCESSFUL.

ASE AND IRIDIUM PUSH-TO-TALK (PTT) ASE XLINK Radio-Satellite-Interoperability

COMPONENT DETAILS

Shown below are the components that ship are needed to integrate into the ASE-XLINK Solution.



Land-Mobile Radios

Donor Radio Connects directly to the Xlink.



ASE XLINK

For linking LMRs to Satellite.



ASE PTT Docking Station

Portable or In-Building Docking Stations available.

SYSTEM OVERVIEW



LMR TO SATELLITE SETUP

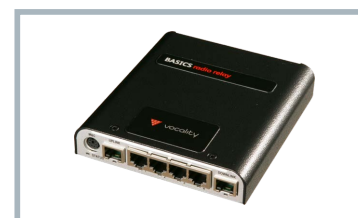
PLEASE NOTE:

Interoperability between land-mobile-radios and satellite is powerful yet complex. The solution is recommended for highly sophisticated users only.

Contact us for more information at:
info@ase-corp.com



ASE XLINK-1



ASE XLINK-2

ASE XLINK INTEROPERABILITY

Customized for the Iridium Network. One per radio Group.

ASE XLINK-1 C-AT

ASE-XLINK-2 Vocality Basics

Contact ASE

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ASE

APPLIED SATELLITE ENGINEERING