FREEDOMATLANTIC
PRODUCT CATALOG 2025

OTTO HEADSET

PTT MODULE

FREEDOM ATLANTIC 163 PD CABLE

OTTO MULTI PORT PTT HUB

WEDGEX

FREEDOMATLANTIC

Apollo UAV Fin High Gain Omni Antenna

S-Band Antenna

L-Band Antenna

DESCRIPTION

Freedom Atlantic's Apollo UAV FIN Omni Antennas are designed for use on unmanned aerial vehicles in particular carbon fiber platforms where antenna power can be lost due to the carbon absorption properties. Additional uses include covert or discreet platforms where Flexible Fabric antenna may not be suitable. The antenna is constructed from Glass Reinforced Plastic (GRP) encapsulated in plastic which is extremely rugged and lightweight.

Part Number	S-Band: FA-APOLLO-SBAND-1
	L-Band: FA-APOLLO-LBAND-1
	C-Band: FA-APOLLO-CBAND-1
Export Classification	EAR99

CONFIGURATION OVERVIEW

- Air Ordinance
- UAV's
- Ground Vehicle
- Watercraft

TOTAL GAIN

SPECIFICATIONS

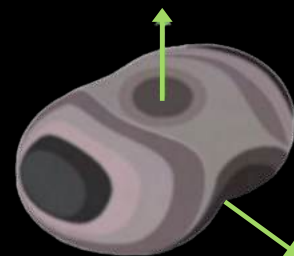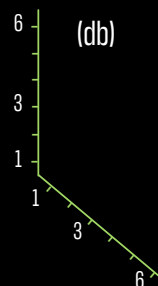| Frequency Range	S-Band: 2200-2507MHz L-Band: 1350-1390Mhz C-Band (L): 4400-5000Mhz C-Band (U): 5100-6000Mhz
Pattern	Omni-directional
Azimuth Beamwidth	360 Nominal
Gain	L/S Band 2dbi (3dbi) peak gain C band 3dbi (4dbi) peak gain
VSWR	S-Band: 1.5:1 L-Band: <1.5:1

EUD ADAPTERS

Polarization Form	Linear Vertical
Mechanical Form	GRP Plastic encapsulated
Color	Black
RF Connector	SMA: Female Straight
Mounting	4x 3.2mm circular holes
Size & Weight	60x70x40mm 40g
RF Power Handling	5w

FREEDOM**ATLANTIC**
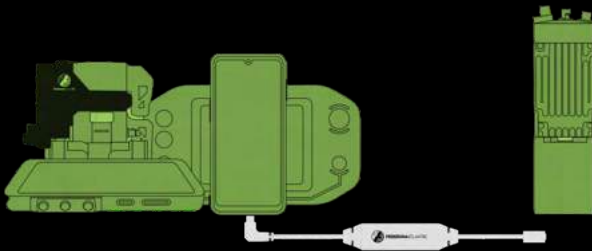
Ethernet Adapter Cable

DESCRIPTION

The Freedom Atlantic USB-C to Ethernet cable provides a rugged and secure connection from Ethernet devices to the USB-C port on an android EUD.

Part Number
Export Classification

S.PCR51.RJ45M.ETH1.18
EAR99

CONFIGURATION OVERVIEW

KEY FEATURES

- USB-C to Ethernet Protocol Translation.
- EMI reinforced protection.
- Customizable ends for your unique application.
- Utilize the RJ45 connection to connect to any Ethernet device with a RJ45 port.
- Overmold design provides dependable ruggedness in any environment to accomplish the mission.
- Utilize the RJ45 connection to connect to any Ethernet device with a RJ45 port.
- Made in the USA with a guarantee of no spyware!

SPECIFICATIONS

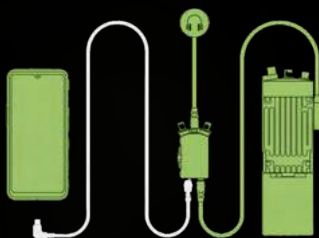CUSTOMIZABLE LENGTHS

FREEDOMATLANTIC
S1 CABLE
MADE FOR THE MPU5 PTT USB PORT

DESCRIPTION

Connect any USB Type-C EUD direct to the MPU5 PTT for full functionality.

Part Number	S.PCR56.PO12BL.23
Export Classification	EAR99

CONFIGURATION OVERVIEW

KEY FEATURES

- Cable puts phone in peripheral mode up to 500mA from the PS PTT.
- New ODU Twist Lock connector to PTT.
- Flex Overmolded ends.
- Specifically made for TE Phones.

SPECIFICATIONS

CUSTOMIZABLE LENGTHS

EUD ADAPTERS

Juggernaut™ IMPCT
Samsung Galaxy S20

Juggernaut™ OPRTR
Samsung Galaxy S23
or Xcover Pro6

FREEDOMATLANTIC
S2 Cable
MADE FOR THE MPU5 PTT USB PORT

DESCRIPTION

These two variants of cables allow for users to seamlessly integrate the MPU5 with existing EUDs in order to get full COT data on the EUD. The MPU5 PTT S2 cable connects directly to the existing MPU5 PTT USB port. The cable allows both the EUD and the MPU5 to act as a HOST device with full COT data control.

Part Number | S.P012BL.PCR.ETH2.18
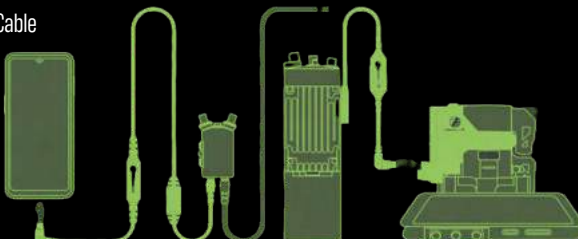
Export Classification | ECCN 3A611.X

KEY FEATURES

- Sends full COT USB data to the EUD, as opposed to other cables that send partial data.
- Uses existing system to provide compatibility with Nett Warrior architecture, allowing both the radio and the EUD to be a host and still communicate.

CONFIGURATION OVERVIEW

MPUS PTT S2 Cable

SPECIFICATIONS

CUSTOMIZABLE LENGTHS
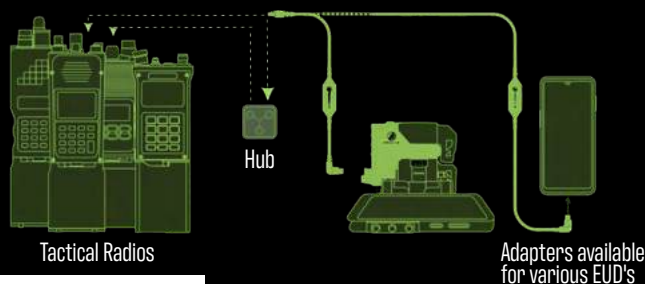
FREEDOMATLANTIC

EUD Power & Data PD Cable

DESCRIPTION

Modular and adaptable, Freedom Atlantic's universal PD cable is designed for use with a hub and radio. Featuring the industry's most robust strain relief overmold/conduit design and maximum EMI shielding, it's purpose-built to meet the needs of today's warfighter, ensuring a reliable connection without fail.

Part Number	S.PCR.PN6C.12.PD1500
Export Classification	ECCN 3A611.X

KEY FEATURES

- Optional configuration of type C interface between 100mA to 2A power output.
- Adjust charge rates real-time using PD protocol messaging.
- Real time power role swapping.
- Reconfigurable USB Type C interface: swap between host and peripheral modes.

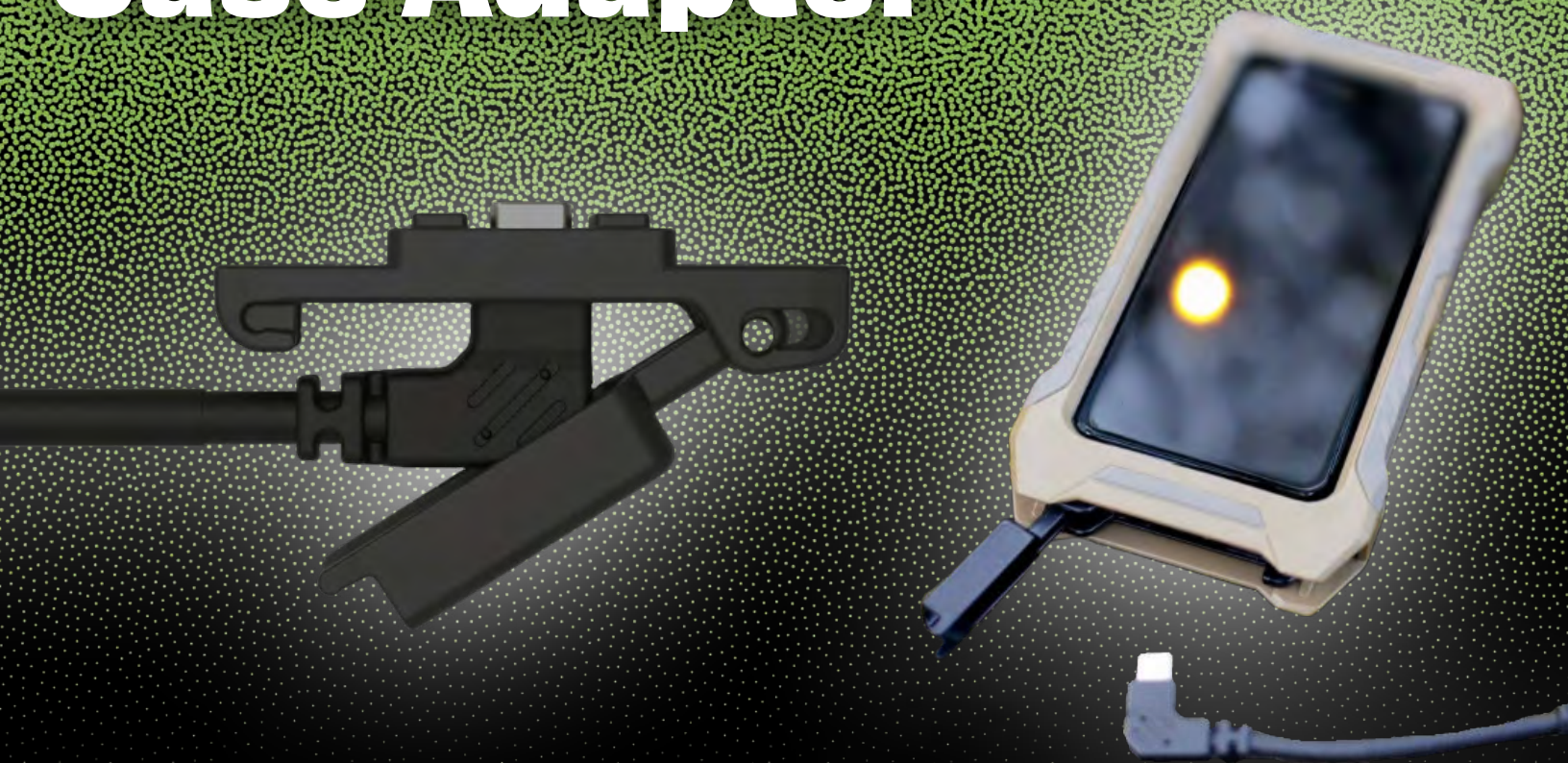## CONFIGURATION OVERVIEW

Tactical Radios

Hub

Adapters available for various EUD's

EUD ADAPTERS

Juggernaut™ IMPCT
Samsung Galaxy S20

Juggernaut™ OPRTR
Samsung Galaxy S23 or Xcover Pro6

SPECIFICATIONS

CUSTOMIZABLE LENGTHS

FREEDOM ATLANTIC
Juggernaut™ OPRTR Case Adapter

DESCRIPTION

The Freedom Atlantic Juggernaut™ OPRTR Adapter is engineered for unwavering performance in the most demanding environments. Built to withstand the harshest conditions, this rugged adapter ensures your connections stay secure, even when the pressure is on. Whether you're in the field or on the move, trust the Juggernaut™ OPRTR Adapter to lock in your cables and keep your mission-critical gear running smoothly.

| Part Number | FA.JUGG.OPRTR-BLK |
| Export Classification | EAR99 |

KEY FEATURES

- Universal Cable Compatibility: Locks in any Freedom Atlantic 90-degree right angle Type C cable, including the USB-C to PRC-163 ODU 12-Pin PD Cable.
- Rugged Durability: Constructed with tough materials to withstand harsh environments and prevent accidental cable detachment.
- IP68 Water Resistance: Gasket-sealed connection offers complete protection against dust and water ingress.
- Quick-Release Latch: Secure and efficient removal mechanism for rapid transitions in high-pressure situations.

COMPATIBLE CASES

Compatible with all OPRTR cases including Samsung Galaxy S23 or Xcover Pro6

Juggernaut™ IMPCT
   Samsung Galaxy S20
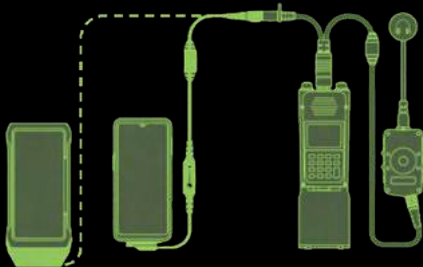
FREEDOMATLANTIC

USB-C to PRC-163 ODU 12-Pin PD Cable

DESCRIPTION

Designed to run in a slick configuration, this cable runs from any Type-C EUD directly to the top or the side of a PRC-163. Set to maximize runtime, this cable will efficiently and effectively maintain a data connection between a PRC-163 and TE EUD using proprietary power management electronics. Allows ATAK users to run EKDU to allow full control of the 163.

Part Number	S.PCR.P012A.30.PD-FER1
Export Classification	ECCN 3A611.X

KEY FEATURES

- Optional configuration of type C interface between 100mA to 2A power output.
- Adjust charge rates real-time using PD protocol messaging.
- Real time power role swapping.
- Reconfigurable USB Type C interface: swap between host and peripheral modes.

CONFIGURATION OVERVIEW

EUD ADAPTERS

Juggernaut™ IMPCT
Samsung Galaxy S20

Juggernaut™ OPRTR
Samsung Galaxy S23 or Xcover Pro6

SPECIFICATIONS

CUSTOMIZABLE LENGTHS

FREEDOMATLANTIC
MPU5 ECHO - Enhanced Communications (for) Hands-Free Operations

DESCRIPTION

Wirelessly connect your MPU5 to an over-the glove PTT in order to provide maximum flexibility without the bulk. PTT options include standard Bluetooth for training and wired operations for secure operations.

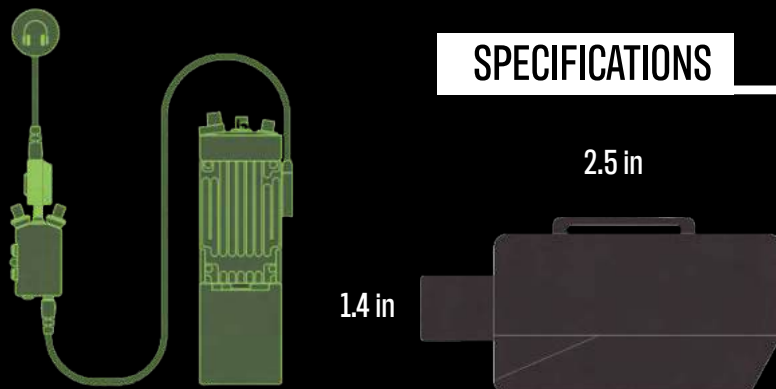|	
Part Number	FA-MPU5-ECHO-BT
Export Classification	EAR99

KEY FEATURES

- Single channel wireless remote PTT.
- Low profile PTT button allows users to key their radio while maintaining positive control on parachute toggles.
- Designed to install over-the-top of existing operator gloves.
- 2 Versions: Bluetooth or wired.

CONFIGURATION OVERVIEW

SPECIFICATIONS

2.5 in

1.4 in

FREEDOMATLANTIC
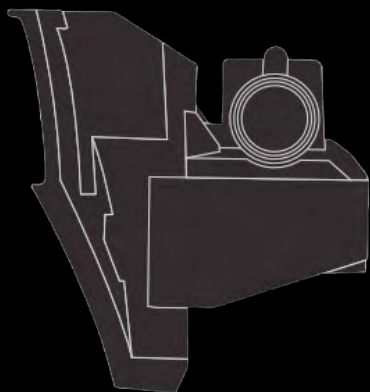# STUB SBNVG Battery Adapter

DESCRIPTION

The STUB SBNVG Battery Adapter provides an interface for the new universal STUB battery platform into both the SBNVG's as well as an additional USB port that can be used for powering alternative USB devices or for charging the entire system. This product is compatible with most NVG variants. For specific inquiries, feel free to contact us.

Part Number	FA-STUB-KIT-1
Export Classification	EAR99

KEY FEATURES

- The Twist Lock mechanism flips out for easy battery attachment or detachment and secures back down to lock firmly in place in one-handed operation.
- Additional USB port for sending or receiving power.
- Fits recommended STUB BB-2511 and BB-2512 cells.
- On/off button to prevent slow discharge of STUB cell when not in use.
- Universal Mounting kit allows for Velcro and/or rail attachment for universal fitment on Standard Issued Helmets (Gentex High Cut/Ceradyne for USMC plus others).

SPECIFICATIONS

2.25 in x 2.0 in
*Battery NOT included

CONFIGURATION OVERVIEW

FREEDOMATLANTIC

ENVG-B Controller & Hub

DESCRIPTION

The Freedom Atlantic 4-Button USB controller is designed to control the ENVG-B platform while attached to the Nett Warrior DOCK-Lite. The controller has a USB 2.0 peripheral interface allowing additional accessories to be connected to the DOCK-Lite system. The peripheral interface sources 5V up to 3A of power.
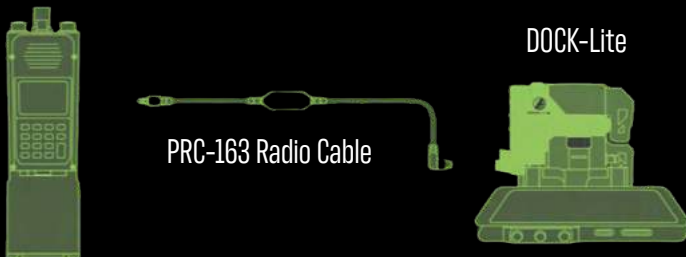
Part Number	(Standard Controller Only) FA-4BTN-V1
Export Classification	ECCN 3A611.X

CONFIGURATION OVERVIEW

DOCK-Lite

PRC-163 Radio Cable

CONFIGURATION OVERVIEW

KEY FEATURES

- 4 USB momentary press buttons send commands to DOCK-L for ENVG-B control.
- USB 2.0 peripheral port for downstream USB devices.
- Sources power up to 5V 3A.
- USB cable retainer supports both 90° and 0° cable connectors.
- USB 2.0 peripheral port cable retainers maintains connector head pressure ensuring water proofed seal for connected devices.
- Press buttons can be used for alternative commands on the EUD

WEDGEX

FREEDOMATLANTIC X OTTO

SIDELINK RADIO ADAPTER

WEDGEX

SIDELINK WEDGE ADAPTER

A COLLABORATION BETWEEN FREEDOM ATLANTIC & OTTO ENGINEERING, THE WEDGEX PROVIDES EFFICIENT, NEXT-GEN POWER/DATA DISTRIBUTION AND MANAGEMENT BY STREAMLINING LEGACY RADIO CONFIGURATIONS. EXISTING KIT SOLUTIONS ARE LIMITED. DUAL RADIO CONFIGURATIONS RELY ON HUB-AND-SPOKE TOPOLOGY REQUIRING COSTLY HUBS AND CABLES TO DISTRIBUTE POWER AND DATA. WITH ITS DUAL INPUT/OUTPUT PORTS, THE WEDGEX CAN CONNECT DIRECTLY TO EXTERNAL BATTERY POWER, DAISY CHAIN TO OTHER RADIOS, CONNECT TO POWER/DATA HUBS, OR DIRECTLY TO EUDS. THE ALL-NEW WEDGEX ELIMINATES DEVICES AND CABLES, WHICH MEANS LESS COST, LESS WEIGHT, AND LESS POWER CONSUMPTION.

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