



FREEDOMATLANTIC

SPECIAL PROJECTS
FREEDOM ATLANTIC

CASE FOLDER

44-**CLASSIFIED**

FILE/CASE REF. NO.

PRODUCT CATALOG
YR. 2024



AGENT (S) Freedom Atlantic

DATE 07-11-2024

SUPERVISOR (S) N. Donham C.I. 005698L

SEE ALSO NOTES:

X-40253

Freedom Atlantic INC

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FREEDOMATLANTIC

FREEDOM ATLANTIC IS A SERVICE-DISABLED VETERAN-OWNED BUSINESS
COMPRISED OF FORMER SPECIAL OPERATIONS PERSONNEL AND A
PURPOSE-LED ENGINEERING TEAM ACCREDITED WITH DECADES OF
EXPERIENCE IN THEIR RESPECTIVE FIELDS.

WE ARE FREEDOM ATLANTIC

OUR MISSION

At Freedom Atlantic, our mission is to deliver superior, innovative, and cost-effective Command, Control, Communications, Computers, Combat Systems, Intelligence, Surveillance, and Reconnaissance (C5ISR) technology solutions that empower the warfighter to maintain situational awareness and dominance at the tactical edge. Leveraging the unparalleled expertise of our former Army Special Operations personnel and highly experienced engineers, we provide critical insights, comprehensive training, and hands-on support to ensure the effective use of advanced tactical equipment in real-world operational environments. We are committed to fostering excellence, integrity, and innovation in all our endeavors, continuously striving to enhance the effectiveness and safety of our nation's defenders.

OUR VISION

At Freedom Atlantic, we leverage decades of Special Operations expertise and world-class engineers to deliver reliable and robust communications solutions. Our products ensure the end user maintains situational awareness and dominance at the tactical edge. We are dedicated to fostering innovation, operational excellence, and a relentless focus on enhancing the effectiveness and safety of our nation's defenders.



VALUE FOCUSED

RESPECT & TEAMWORK

We treat each other with kindness, empathy, and consideration. We actively listen, value diverse perspectives, and collaborate to achieve shared goals. Together, we build a supportive and cohesive environment where everyone thrives as a team.

INTEGRITY & ACCOUNTABILITY

We uphold unwavering integrity in all our actions. We take responsibility for our decisions, admit mistakes, and learn from them. Our commitment to accountability ensures transparency, trust, and ethical behavior throughout our organization.



EXCELLENCE & INNOVATION

We encourage creative thinking, continuous improvement, and a willingness to explore new ideas. Our commitment to innovation drives us to develop unique solutions to complex challenges, take calculated risks, and devise new ways to serve our customers, team members, and mission.

VETERAN EMPOWERMENT

As a Service-Disabled Veteran-Owned Small Business, we are dedicated to empowering veterans and leveraging their unique skills and experiences. We recognize the value that veterans bring to our organization and are committed to hiring veterans, their families, and supporting veteran initiatives while recognizing their sacrifices to our great nation.

LEADERSHIP



NATHAN DONHAM



NATE DONHAM: CEO

Retired Special Operations Forces information technology leader with 20+ years of honorable military service. Offering creative and innovative thinking to solve complex communications problems drawing on unique 16+ years of SOF experience. Leading programs such as ATAK development, Autonomous vehicle, and Tactical networks.



DAVID MARTSCHINSKE

DAVID MARTSCHINSKE: VP - PRODUCTS

Mr. Martschinske has 16+ years of product development experience in a wide range of industries including commercial outdoor, motion control systems, and communications equipment for USG/DOD. Mr. Martschinske has been instrumental in the design and development of several solutions that are currently fielded by US and coalition partners, military, and law enforcement entities.



BRAD LAMBES

BRAD LAMBES: CHIEF OF STAFF

Retired Special Operations Leader with 20+ years of honorable military service. Skilled in strategic planning, information assurance, operations and program management. His expertise spans resource allocation, workflow optimization and supply chain management, honed through years of hands-on experience in government and commercial industries.

These
guys lead
us....



VETERAN-OWNED, MISSION FOCUSED

Our
Users,
Our focus



As a Service-Disabled Veteran-Owned Small Business, we are dedicated to empowering veterans and leveraging their unique skills and experiences. We recognize the value that veterans bring to our organization and are committed to hiring veterans, their families, and supporting veteran initiatives while recognizing their sacrifices to our great nation.





01

ANTENNAS

PRODUCT

OFFERINGS

02

RADIO
COMMUNICATIONS



03

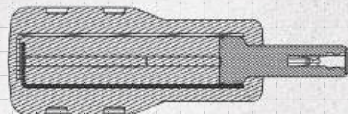
PERIPHERAL
MANAGEMENT



USB Type-C

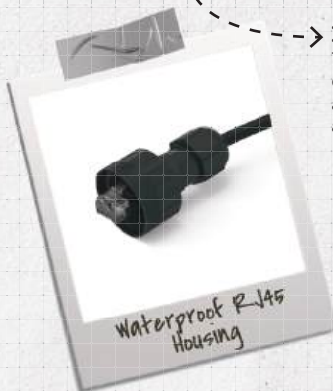
Flex Overmold

In tests, the connectors withstood 75,000 cycles in electrical continuity, whereas competitor designs failed after just 1,000-3,000 cycles.



6X Longer Life

Overmold design has been tested to survive electrical conductivity more than 6x longer than equivalent cables on the market.



Waterproof RJ45 Housing

RJ45 Male

Utilize the RJ45 male connection to connect to any ethernet device with a female RJ45 port.

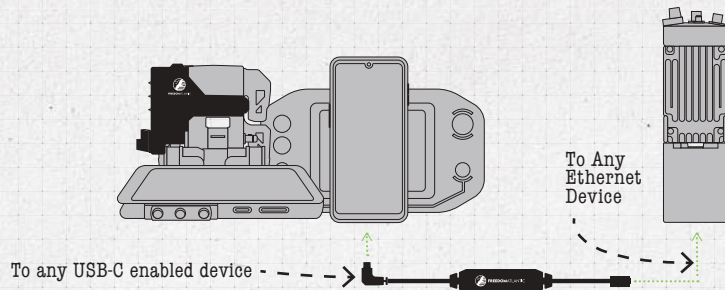
USB-C TO ETHERNET CABLE

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
S.PCR51.RJ45M.ETH.18

Export Classification
EAR99

CONFIGURATION OVERVIEW



SPECIFICATIONS

-- Customizable Lengths --



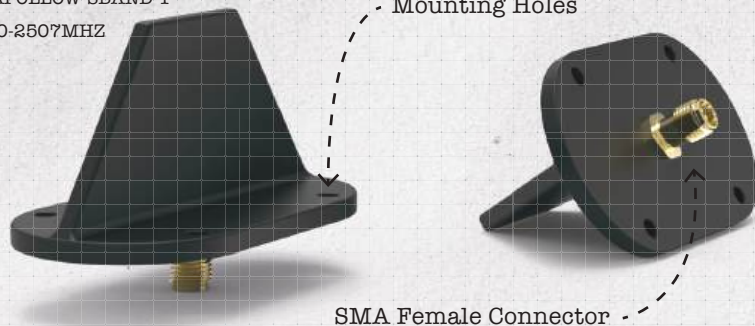
*Contact Freedom Atlantic for custom or cable length recommendations to meet your mission needs.

KEY FEATURES

- USB-C to Ethernet Protocol Translation
- Metal-reinforced protection
- Customizable ends for your unique application
- Utilize the RJ45 male connection to connect to any ethernet device with a female RJ45 port.
- Overmold design provides dependable ruggedness in any environment to accomplish the mission

S-BAND ANTENNA

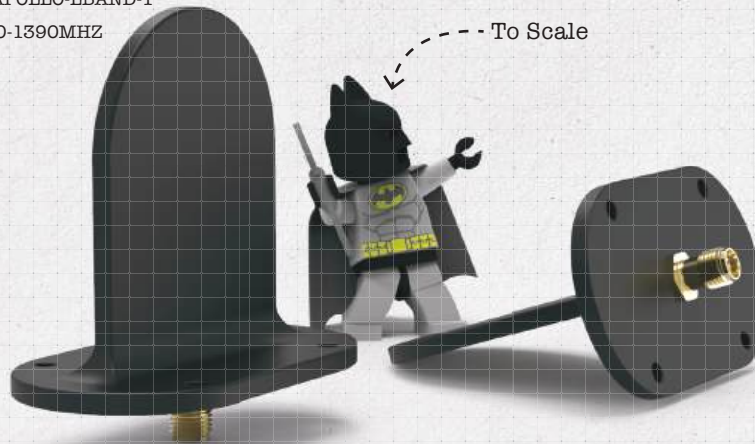
- FA-APOLLO-SBAND-1
- 2200-2507MHZ



SMA Female Connector

L-BAND ANTENNA

- FA-APOLLO-LBAND-1
- 1350-1390MHZ



APOLLO UAV FIN HIGH GAIN OMNI ANTENNA

Freedom Atlantic's Apollo UAV FIN Omni Antennas are designed for use on unmanned aerial vehicles in particular carbon fibre platforms where antenna power can be lost due to the carbon absorption properties. Other uses could be covert or discreet platforms where Flexible Fabric antennae 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

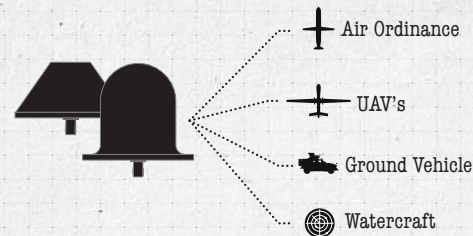
L-Band: FA-APOLLO-LBAND-1

C-Band: FA-APOLLO-CBAND-1

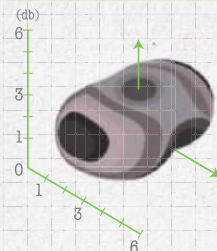
Export Classification

EAR99

CONFIGURATION OVERVIEW



TOTAL GAIN



SPECIFICATIONS

Frequency Range	S-Band: 2200-2507MHz	Polarization Form	Linear Vertical
	L-Band: 1350-1390Mhz	Mechanical Form	GRP Plastic encapsulated
	C-Band (L): 4400-5000Mhz	Color	Black
	C-Band (U): 5100-6000Mhz	RF Connector	SMA Female Straight
Pattern	Omni-directional	Mounting	4x 3.2mm circular holes
Azimuth Beamwidth	360 nominal	Weight	40g
Gain	4dB (6dbi) peak gain	Size	60x70x40mm
VSWR	S-Band: 1.5:1 L-Band: <1.5:1	RF Power Handling	5w

**Universal
Mounting Kit**
For standard USMC
issued kit

Fits recommended
STUB BB-2511 &
BB-2512 cells

**USB Type-C
Dual Role Port**
For sending or
receiving USB power

Locking Tabs

Connects to
SBNVG/ECOTI

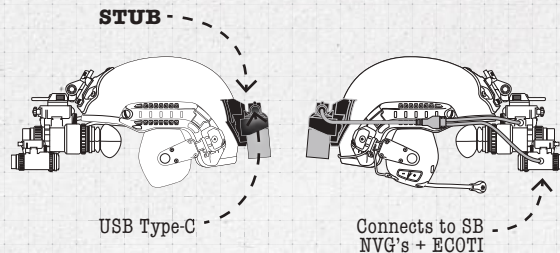
STUB SBNVG BATTERY ADAPTER

The STUB SBNVG Battery Adapter Provides an interface for the new universal STUB battery platform into both the SB-NVG's as well as an additional USB port that can be used for powering alternative USB devices or for charging the entire system

Part Number
FA-STUB-KIT-1

Export Classification
EAR99

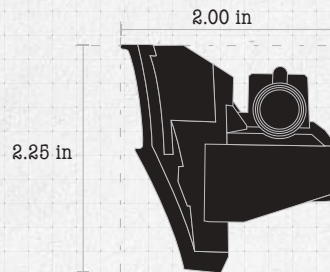
CONFIGURATION OVERVIEW



KIT CONTENTS

- USB-C PD wall charger/cable
- Universal carrying pouch
- Universal Mounting Kit (includes velcro & 550 cord)
- *Battery NOT included

SPECIFICATIONS



KEY FEATURES

- Twist Lock mechanism flips out to attach/detach batteries and drops back down to lock into place. 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)

Radio Connector

Configurable plug for tactical hubs and radios. Contact a Sales rep to confirm part number.

Adaptive PD

Cable will learn its connections and adjust power draw within 100mA increments

Flex Overmold

In tests, the connectors withstood 75,000 cycles in electrical continuity, whereas competitor designs failed after just 1,000-3,000 cycles.

USB Type-C

EUD POWER & DATA (PD) CABLE

Modular and adaptable, Freedom Atlantic's universal PD cable is designed for direct use with a hub or 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.

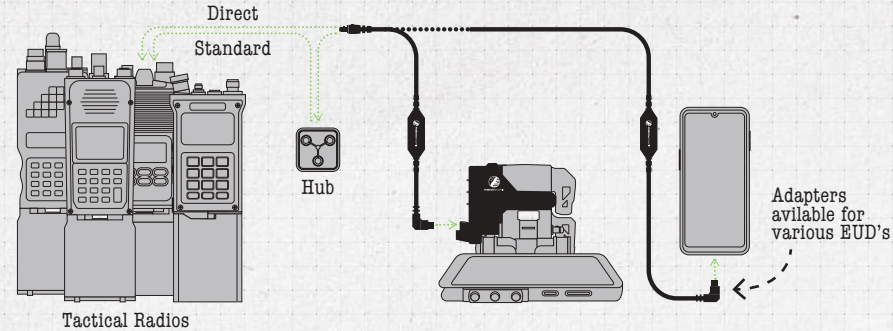
Part Number

S.PCR.PN6C.12.PD1500

Export Classification

ECCN 3A611.X

CONFIGURATION OVERVIEW



SPECIFICATIONS

-- Customizable Lengths --



*Contact Freedom Atlantic for custom or cable length recommendations to meet your mission needs.

KEY FEATURES

- 5, 9 and 12V power to EUD (USB Power Delivery 3.0)
- 100mA to 2A configurable current 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

EUD ADAPTERS

Juggernaut™ IMPCT

Samsung Galaxy S20



Juggernaut™ OPRTR

Samsung Galaxy S23 or Xcover Pro 6



ODU 12-pin plug
L3Harris 12-Pin ODU
connector with A Keying

Adaptive PD
Cable will learn its
connections and adjust
power draw within
100mA increments

Flex Overmold
In tests, the connectors
withstood 75,000 cycles in
electrical continuity, whereas
competitor designs failed
after just 1,000-3,000 cycles.



USB Type-C

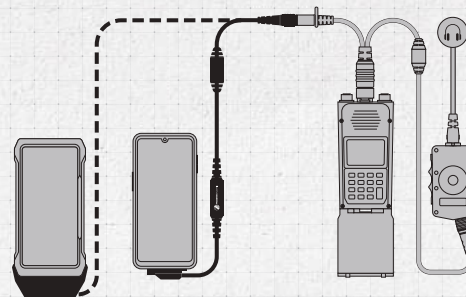
L3HARRIS PRC-163 DIRECT POWER & DATA (PD) CABLE

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 ping the EUD's State-Of-Charge in order to establish a power profile that enables longer overall system runtime.

Part Number
S.PCR.P012A.30.PD-FER1

Export Classification
ECCN 3A611.X

CONFIGURATION OVERVIEW



SPECIFICATIONS

-- Customizable Lengths --



*Contact Freedom Atlantic for custom or cable length recommendations to meet your mission needs.

KEY FEATURES

- 5, 9 and 12V power to EUD (USB Power Delivery 3.0)
- 100mA to 2A configurable current 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

EUD ADAPTERS

Juggernaut™ IMPCT
Samsung Galaxy S20



Juggernaut™ OPRTR
Samsung Galaxy S23 or Xcover Pro 6



MPU5 DOUBLE HOST

These two variants of cables allow for users to seamlessly integrate the MPU5 with existing EUDs and system architectures (Nett Warrior). The Ethernet/Host Cable (S.PERS22-CBL-ETH.PCR51.ETH1.30) takes Ethernet from the MPU5 sidehat and translates it to USB. The Host/Host Cable (S.P012BL.PCR51.ETH2.30) acts as a USB to USB bridge that allows both the EUD and the MPU5 to act as a HOST device.

Part Numbers:

Ethernet/Host

S.PERS22-CBL-ETH.PCR51.ETH1.30

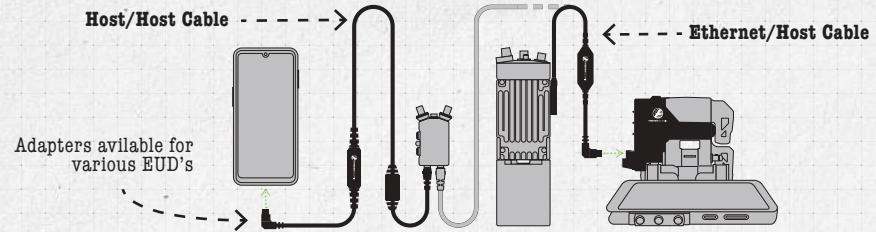
Host/Host

S.P012BL.PCR51.ETH2.30

Export Classification

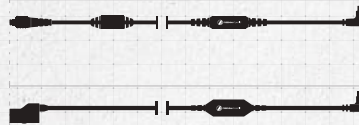
EAR99

CONFIGURATION OVERVIEW



SPECIFICATIONS

-- Customizable Lengths --



* Contact Freedom Atlantic for custom or cable length recommendations to meet your mission needs.

KEY FEATURES

- On the Persistent Systems PTT -> DOUBLE HOST functionality. Uses existing system to provide compatibility with Nett Warrior architecture, allowing both the radio and the EUD to be a host and still communicate.
- Same ruggedization specs on our USB C from before
- Use side port or the PTT port depending on your system needs
- Put the two different Jugg adapters in there too to plug those

MPU5 PTT Plug

Fits into existing MPU5 PTT

Double Host Translation

Seamlessly connects both EUD host and Radio host together

Host/Host Cable

S.P012BL.PCR51.ETH2.30

Ethernet/Host Cable

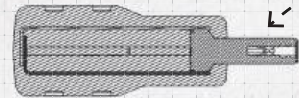
S.PERS22-CBL-ETH.PCR51.ETH1.30

Ethernet Host Translation

Bridge ethernet connection to a USB device

Flex Overmold

In tests, the connectors withstood 75,000 cycles in electrical continuity, whereas competitor designs failed after just 1,000-3,000 cycles.



USB Type-C

Customizable Cable Ends

Fits over the top of
standard glove

3.5mm Jack

Optional jack allows a
redundant cable that can
be routed through the
clothes in the event that
wireless cannot be used

Wireless Activation

Key channel from
the MPU5 PTT while
keeping your hands
on the job.



Wireless Transceiver
Module

MPU5 HAHO PTT MODULE

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 as well as an Inter-Soldier Wireless (ISW) version for secure operations.

Part Number

BLUETOOTH: FA.PTT.MPU5HAHO-BT
ISW: FA.PTT.MPU5HAHO-ISW

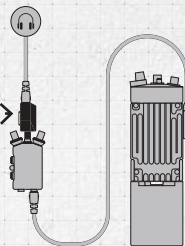
Export Classification

EAR99 + ITAR (ISW)

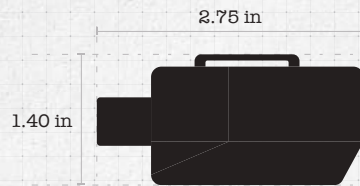
CONFIGURATION OVERVIEW

Wireless Transceiver

Module fits inline
with existing
MPU5 cable



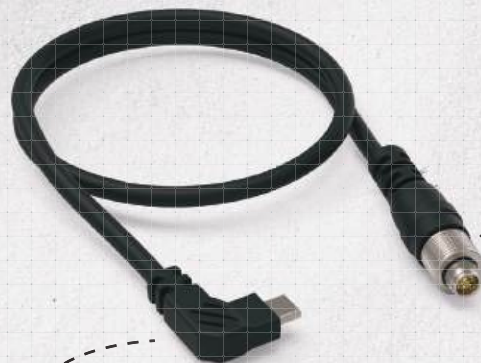
SPECIFICATIONS



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 low energy and Inter-Soldier Wireless
- Embedded receiver in radio to body-worn PTT interconnect cable
- Users can key channel from remote PTT or from body-worn PTT

*Contact Freedom Atlantic for custom or cable length recommendations to meet your mission needs.

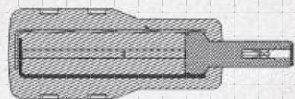


Peripheral Mode for EUD

Designed to be use with
MPU5, allowing the EUD
to run as a peripheral

Flex Overmold

In tests, the connectors withstood 75,000 cycles
in electrical continuity, whereas competitor
designs failed after just 1,000-3,000 cycles.



EUD ADAPTERS

Juggernaut™ IMPCT

Samsung Galaxy S20



Juggernaut™ OPRTR

Samsung Galaxy S23 or Xcover Pro 6



MPU5 PTT CABLE

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

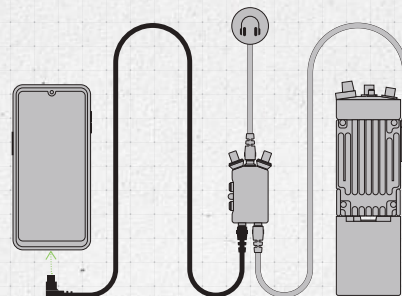
Part Number

S.PCR56.PO12BL.23

Export Classification

EAR99

CONFIGURATION OVERVIEW

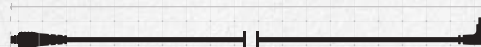


KEY FEATURES

- Cable puts phone in peripheral mode up to 2A from the PS PTT
- New ODU Twist Lock connector to PTT

SPECIFICATIONS

-- Customizable Lengths --



*Contact Freedom Atlantic
for custom or cable length
recommendations to meet
your mission needs.

DONT FORGET THE MERCH!

<https://freedom-atlantic.com/merch/>



T-SHIRT



TANK TOPS



HOODIES



STICKERS





FREEDOMATLANTIC



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INSTAGRAM

@FREEDOM.ATLANTIC

EMAIL:

info@freedom-atlantic.com

SITE:

www.freedom-atlantic.com

ADDRESS:

3960 Kropf Ave SW
Canton, OH 44706