



STAR-PAN™ II

Integrated USB data/power distribution hub for fast-moving special operation forces and small-squad team leaders

Mission flexibility is key in meeting the warfighter's ever-evolving duties in the field. The STAR-PAN™ II USB data/power hub is designed for just the most core C4ISR capabilities including End User Device (EUD) integration, radio comm support, video downlink (Rover) as well as robust management of battery and auxiliary power sources. Two versions are available: a pre-cabled hub assembly with integrated EUD and power cables equipped with NATO STANAG 4695 standard connectors; and a connectorized hub, ready for configuration with customer-specified cables and adapters.

KEY FEATURES/BENEFITS

- Provides battery power and +5VBus power via 2 cabled power input ports for extended missions or battery hot swap
- Supports soldier EUD/Host, Radio, and up to 2 USB peripheral devices (with bifurcated 808-081 cable for 2nd device)
- SMBus, USB2.0 (full and high-speed), USB1.1 compatible interface
- Power monitoring and management for each voltage rail and port
- Compatible Personal Area Network (PAN) pin configuration and Smart Battery interface
- Built-in SMBus to USB converter to USB host devices

FEATURES

- STAR-PAN II 808-057-1 with integrated cables, or 808-194-1 standard hub
- Designated host/EUD port, designated radio/peripheral port, and Universal PAN compliant port (expandable for up to two devices)
- Supports hot-swappable power sources and radio-supplied backup power
- Heat-efficient electronics packaging to optimize efficiency and extend battery life

PAN APPLICATIONS

- Dismounted infantry soldier situational awareness and battery management
- Fast-moving special operations forces communications and situational awareness
- Fire rescue field communications and logistics
- Underground, highwall, and surface mining wireless communications

Export of STAR-PAN™ USB Hub/Power Distribution systems is restricted and/or controlled by U.S. Department of Commerce Export Administration Regulations

BATTLE-TESTED

STAR-PAN™ II

808-194-1 / 808-057 -1

2 port (expandable) power and data hub / cabled hub assembly



OVERVIEW

The Glenair STAR-PAN™ II Hub is a lightweight, durable, compact data and power distribution hub, ruggedized for harsh environment dismounted soldier applications. STAR-PAN II provides a data backbone for up to 3 USB devices with power monitoring and management for connected external peripherals, radio, and the soldier's EUD/Host. STAR-PAN II is compatible with USB1.1, USB2.0 (full and high-speed), and SMBus protocols, and incorporates dual power input ports for extended missions or battery substitution, minimizing down time. All connector interfaces are compliant to the NATO STANAG 4695 standard for Soldier Power Connectors. Recommended: general-purpose C1 cable for EUD, battery, and peripheral connectivity.

PERFORMANCE SPECIFICATIONS

Operating Conditions	
Operating Temperature	-40°C to +55°C
Storage Temperature	-40°C to +80°C
Operation Altitude	9754m
Storage Altitude	15240m
Water Immersion, Mated	MIL-STD-810, Method 512, 1m for 1 hr.; IP67 rated dust / water resistant
Host & Pan	
Battery Voltage	10.0V to 20.0V, 14.8V typical
Battery Supply Current	3.5A Maximum per individual port
Battery Supply Total Current	5A total system
5VUSB Supply Voltage	4.75V to 5.1 V, 4.90V typical
5VUSB Supply Current	3A Maximum per individual port
Radio Port	
Battery Voltage	10.0V to 20.0V, 14.8V typical. Highest priority for power management
Battery Supply Current	5A maximum per individual port
+5V Back Up Supply Current	1.2A typical, 3A max, based on radio supply, radio 1 primary
+5V Back Up Supply Current	.5A per port
Battery Port	
Battery Input Voltage	10V to 20V
Battery Supply Current	5A maximum system supply current
SMBus Data	-0.5V to +3.5V, 808-194-1 P5 only

STAR-PAN™ HUBS + ACCESSORIES

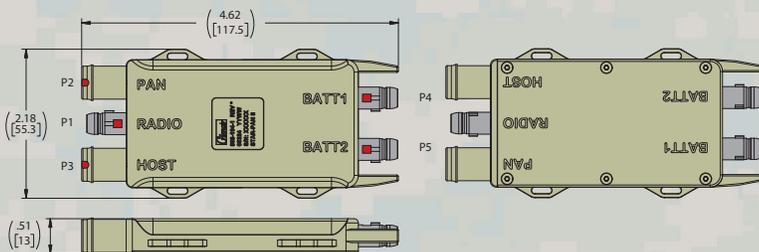
HOW TO ORDER

Sample Part Number:	808-194-1
STAR-PAN Hub	STAR-PAN II 2 port power/data hub [NATO NSN 5935-01-691-2366]
Hub with MOLLE clip	808-194-1-MC 2-port Power/data hub with MOLLE clip

STAR-PAN II PORT CONFIGURATION

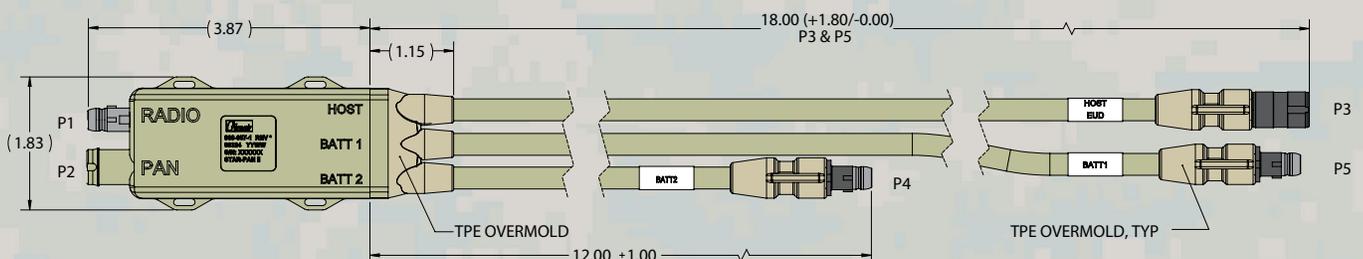
EUD	1
RADIO	1
PAN	1
POWER	2

Both versions of STAR-PAN II provide identical capabilities. Non-cabled version is designed more for users with unique EUD or battery-power configuration requirements. All cables supplied separately.



HOW TO ORDER: HUB / CABLE ASSEMBLY VERSION

Sample Part Number:	808-057-1
Hub with Integrated Cables	STAR-PAN II 2 port power/data hub with integrated cables [NATO NSN 6140-01-682-5677]
Hub with MOLLE clip	808-057-1-MC 2-port Power/data hub with MOLLE clip



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STAR-PAN™ II

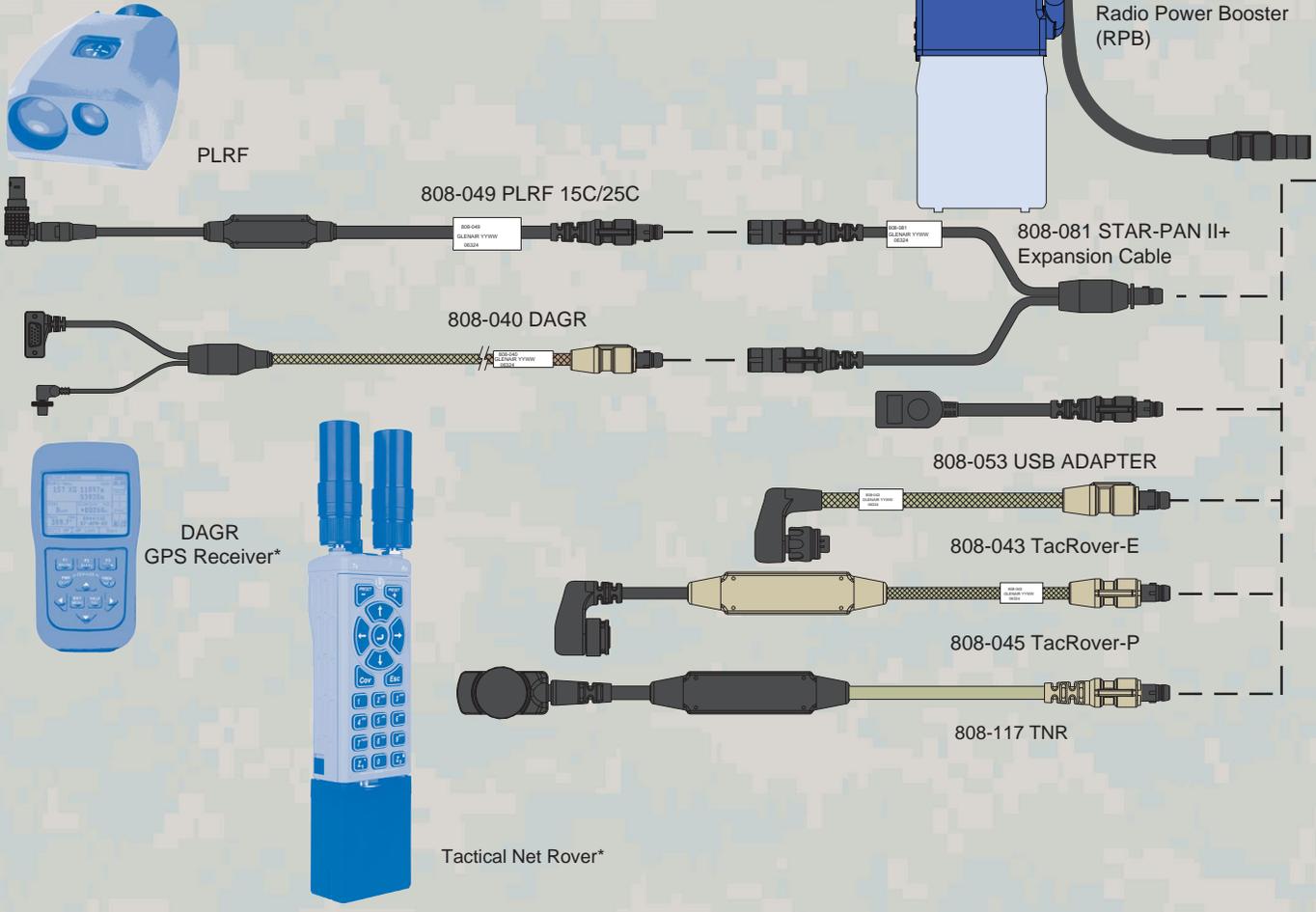
808-057-1 and 808-194-1 Configuration diagram 2 port (expandable) power and data system



STAR-PAN™ HUBS + ACCESSORIES

STAR-PAN II CAPABILITY DIAGRAM

- Universal PAN compliant ports (up to two devices)
- 1 designated host/EUD port
- 1 designated radio peripheral port
- 1 expandable PAN port for up to two USB peripherals
- Hot-swappable power sources
- Radio-supplied backup power
- Glenair power port management
- Across-the-board support for all soldier radio types:
 - L3HARRIS [AN/PRC-117G, AN/PRC-152A]
 - THALES [AN/PRC-154 Rifleman, AN/PRC-148 JEM]
 - Domo Tactical Communications (DTC) [SOL8SDR-H]
 - ELBIT [PNR-1000, MCTR-7200HH]
 - Silvus Technologies [SC4200, SC4400]
 - Bittium [Tough SDR Handheld™]



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808-057-1 and 808-194-1 Configuration diagram 2 port (expandable) power and data system



GLENAIR STAR-PAN TECHNOLOGY ILLUSTRATED IN THIS CAPABILITY DIAGRAM

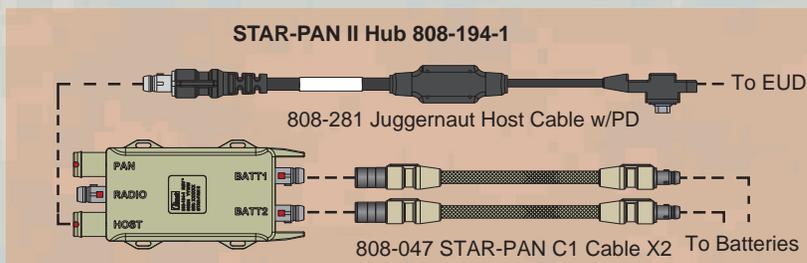
STAR-PAN Component Description	Part Number
STAR-PAN II Multiport USB and Power Distribution Hub	808-057-1
STAR-PAN Expansion Cable	808-081
PRC 152A Radio Data Adapter	TS8-513
Juggernaut Host Cable with Power Delivery	808-281
DAGR GPS/Navigation Cable	808-040
PLRF 15C/25C Laser Range Finder Cable	808-049
TacROVER-P SIR 2.0 ISR Receiver Cable	808-045
TacROVER-E ISR Receiver Cable	808-043
Tactical Net Rover ISR Receiver Cable	808-117
USB 2.0 Adapter Cable	808-053
BB2590 Battery Adapter	TS2-026
Radio Power Booster	TS3-022
STAR-PAN II Quick-Start User's Guide	990-TS002



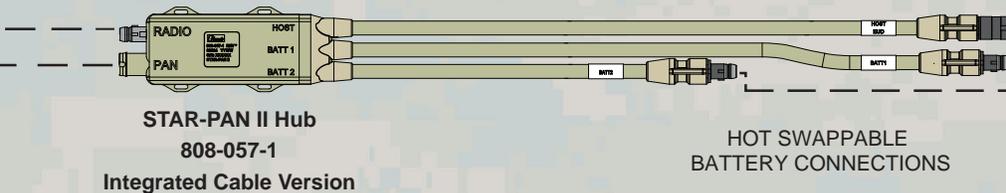
Pocket-Size
STAR-PAN II
Quick-Start
User's Guide

[www.glenair.com/
star-pan](http://www.glenair.com/star-pan)

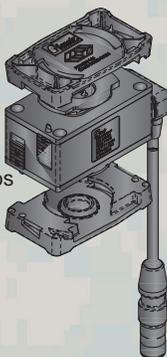
STAR-PAN™ HUBS + ACCESSORIES



End
User
Device*



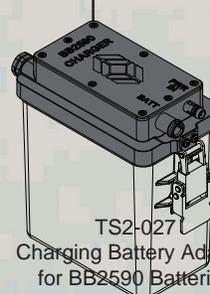
808-175
Battery Adapter
PRC-152A,
PRC-152,
and PRC-148 Radios



TS2-026 Battery Adapter
for BB2590 Batteries
with EMIL Box Option



TS2-027
Charging Battery Adapter
for BB2590 Batteries



Conformal Wearable Battery*
(direct connection, no adapter required)

* Example compatible devices, not supplied by Glenair

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STAR-PAN™ II

STAR-PAN II accessories

TS4-017 MOLLE pouch • TS3-001 USB Flash drive



STAR-PAN™ HUBS + ACCESSORIES



STAR-PAN II
MOLLE pouch

MOLLE POUCH SPECIFICATIONS

- Tan or Camouflage Cordura
- Single-button snap-lock for mounting on MOLLE loops
- Front loop Velcro securely retains STAR-PAN II hub

HOW TO ORDER

Sample Part Number:		TS4-017	-T
STAR-PAN MOLLE Pouch	STAR-PAN II MOLLE pouch		
Color Option	-T = Tan -C = Camo		



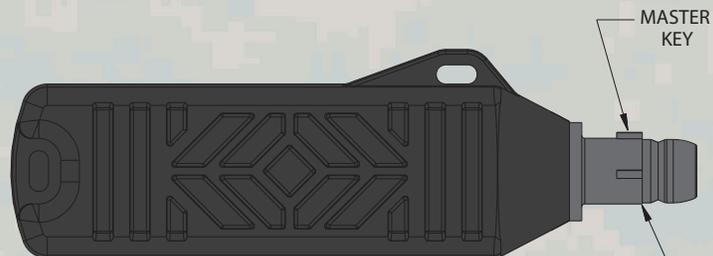
STAR-PAN
USB Flash drive

USB FLASH DRIVE SPECIFICATIONS

- Ergonomic black overmold
- 8, 16, 32, and 64 Gb capacities available
- Works with all STAR-PAN hubs

HOW TO ORDER

Sample Part Number:		TS3-001	
Accessory Series	STAR-PAN USB Flash drive		
Flash Drive Size	Omit for default 64 Gigabyte -08 = 8Gb -16 = 16Gb -32 = 32Gb		



CONNECTOR INTERFACE IAW
8070-1676-06ZNU6-6PY
CAVITY 2 - FMLB

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STAR-PAN™ II

808-047 General-Purpose STAR-PAN Cable

808-081 STAR-PAN II expansion cable



QUALIFIED FOR USE WITH ALL STAR-PAN POWER / DATA HUBS: LIGHT, II, IV, VI, AND BASE STATION X STANDARD CABLE FOR USE WITH ALL MIGHTY MOUSE 807-EQUIPPED ADAPTER CABLES, EUDs, BATTERIES, AND PERIPHERALS

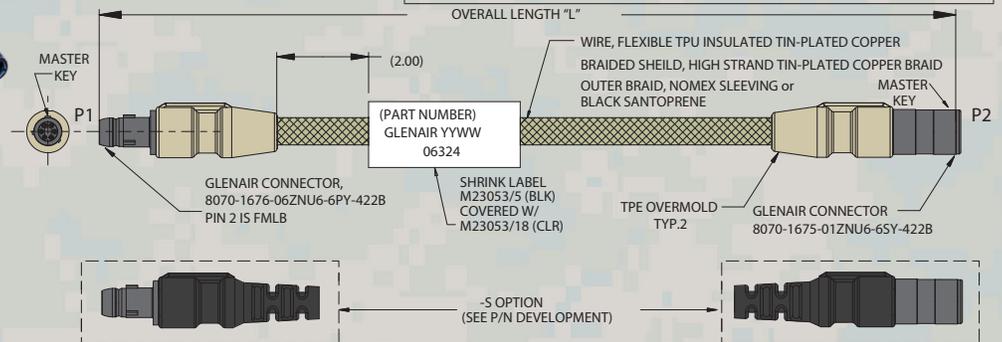


SPECIFICATIONS

- Olive drab Nomex® braided cable, or black Santoprene-jacketed cable
- Overmolded, ergonomic connector strain reliefs, desert tan or black
- Mighty Mouse 807 (NATO standard) connectors
- Weight, 24" cable: 50g
- Export classification: ECCN 3A611.x

HOW TO ORDER

Sample Part Number:	808-047	-36
Cable Series	General-Purpose STAR-PAN cable	
Cable Jacket Option	-S = Black Santoprene Jacket Omit for standard Olive Drab Nomex	
Length Designator	In inches. Omit for default length of 24.00" [NATO NSN 5995-01-668-8636]	



DESIGNED FOR STAR-PAN II. EXPANDS PAN PORT TO UTILIZE TWO USB PERIPHERAL DEVICES



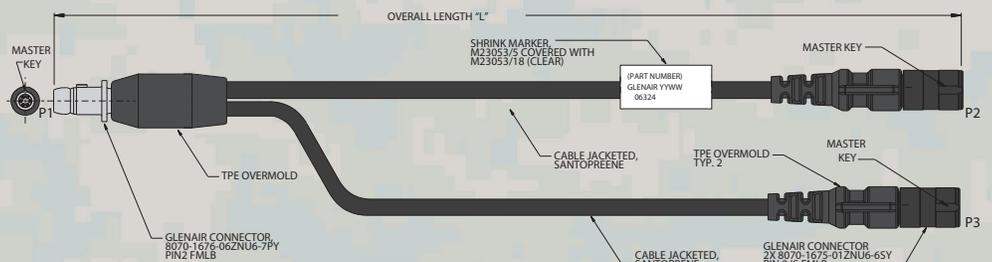
HUB PORT DESIGNATOR:
PAN

SPECIFICATIONS

- Santoprene-jacketed cable, black
- TPE overmolded, ergonomic connector strain reliefs
- Mighty Mouse 807 (NATO standard) connectors
- Weight, 8" cable: 56g
- Export classification: ECCN 3A611.x

HOW TO ORDER

Sample Part Number:	808-081	
Cable Series	STAR-PAN II Expansion Cable	
Length Designator	In inches (minimum 6.00") Omit for default length of 8.00"	



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