STAR-PAN™ VI

Integrated USB data/power distribution hub for digitally aided close air support (DACAS) and other combined mission commander / JTAC applications

KEY FEATURES/BENEFITS

- Battery Power and +5VBus power to up to 4 USB devices, 2 dedicated Radio ports
- Robust fault mode protection circuitry for surge, reverse voltage, and over current
- Embedded level 3 charge control circuitry for smart battery interface, within a wide charge voltage range
- Compatible with DC power sources
- APS port for system power and main system battery charging on extended missions
- Radio Port Vbus System Hold Up for extended mission time and weight reduction
- Compatible Personal Area Network (PAN) pin configuration and Smart battery interface
- Built-in SMBus to USB converter to USB host device

FEATURES

- Universal PAN compliant ports (up to six devices)
- 1 designated host/EUD port
- 2 designated radio peripheral ports
- 4 PAN receptacles for up to four peripherals
- Battery and auxiliary power source input
- Glenair power port management
- Radio-supplied backup power
- Smart battery charging from auxiliary power
- Up to 5A battery power per port, 5A system total
- Up to 3A 5 Volt VBUS power per port, 5A system total
- Precision-machined construction, integrated connectors
- Heat-efficient electronics packaging to optimize efficiency and extend battery life

BATTLE-TESTED

STAR-PAN™ VI

808-037
## 6 port smart power and data hub system

OVERVIEW

The Glenair STAR-PAN™ VI Hub is a lightweight, durable, compact data and power distribution hub, ruggedized for harsh environment dismounted soldier applications. The connectorized hub provides a data backplane with power monitoring and management to connected external peripherals used in Digitally Aided Close Air Support (DACAS) and other mission applications. The hub is compatible with USB1.1, USB2.0 (full and high speed), and SMBus protocols. STAR-PAN™ VI contains two power inputs for extended missions. Two radio ports capable of powering up the USB Data backplane and host connection. A dedicated charge port for use with smart batteries and auxiliary power sources including multiple DC power sources such as vehicle power, solar panels, kinetic energy devices or fuel cells. All connector interfaces compliant to NATO STANAG 4695. Recommended: general-purpose C1 cable for EUD, battery, and peripheral connectivity.

PAN APPLICATIONS

- **JTAC Digitally Aided Close Air Support (DACAS)**
- **Tactical ops center operations commander**
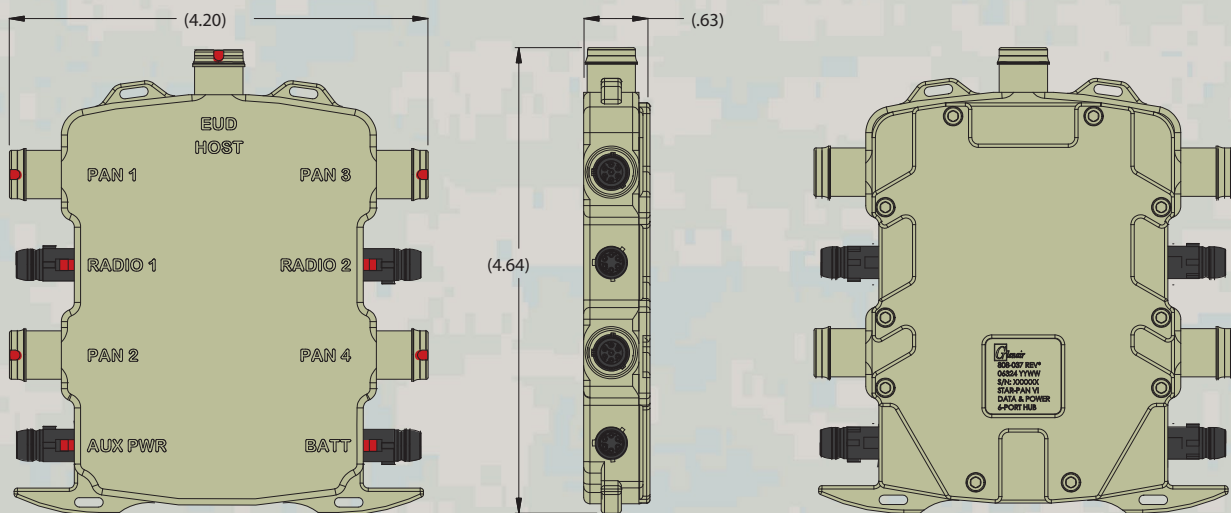
HOW TO ORDER

Sample Part Number:	808-037
Connectorized Hub	**808-037** STAR-PAN VI 6-port power/data hub, standard port configuration: 1 EUD, 2 RADIO, 4 PAN, 2 POWER
Hub with MOLLE clip	**808-037-MC** 6-port hub, standard port configuration, with MOLLE clip

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 1–4	
Battery Voltage	10.0V to 20.0V, 14.8V typical
Battery Supply Current	5A Maximum per individual port
+5V Backup Total Supply Current	5A based on radio supply, Radio 1 primary
Radio 1 and 2 Ports	
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
Auxiliary Power Supply Port	
Auxiliary Voltage Source	10V to 36V
Auxiliary Supply Current	5 A maximum system supply current
Battery Port	
Battery Input Voltage	10V to 20V
Battery Supply Current	5A maximum system supply current
Battery Charge Current	3A

STAR-PAN™

STAR-PAN VI CAPABILITY DIAGRAM

- Universal PAN compliant ports (up to six devices)
- 1 designated host/EUD port
- 2 designated radio peripheral ports
- 4 PAN receptacles for up to four peripherals
- Battery and auxiliary power source input

- Glenair power port management
- Radio-supplied backup power
- Smart battery charging from auxiliary power
- Up to 5A battery power per port, 5A system total
- Up to 3A 5 Volt VBUS power per port, 5A system total

808-040 DAGR

DAGR
GPS Receiver*

Hand-Held
Radio*

Tactical Net Rover*

TS3-022
Radio Power Booster
(RPB)

EUD
HOST

PAN 1   PAN 3

RADIO 1   RADIO 2

PAN 2   PAN 4

AUX PWR   BATT

808-043 TacROVERe

808-045 TacROVERp

808-117 TNR

STAR-PAN VI Hub
808-037
precision-
machined-
construction
enclosure with
IP67 sealed ports

Auxiliary Power Sources*
(Kinetic Energy, Vehicle Power, AC Power, 2nd Battery)

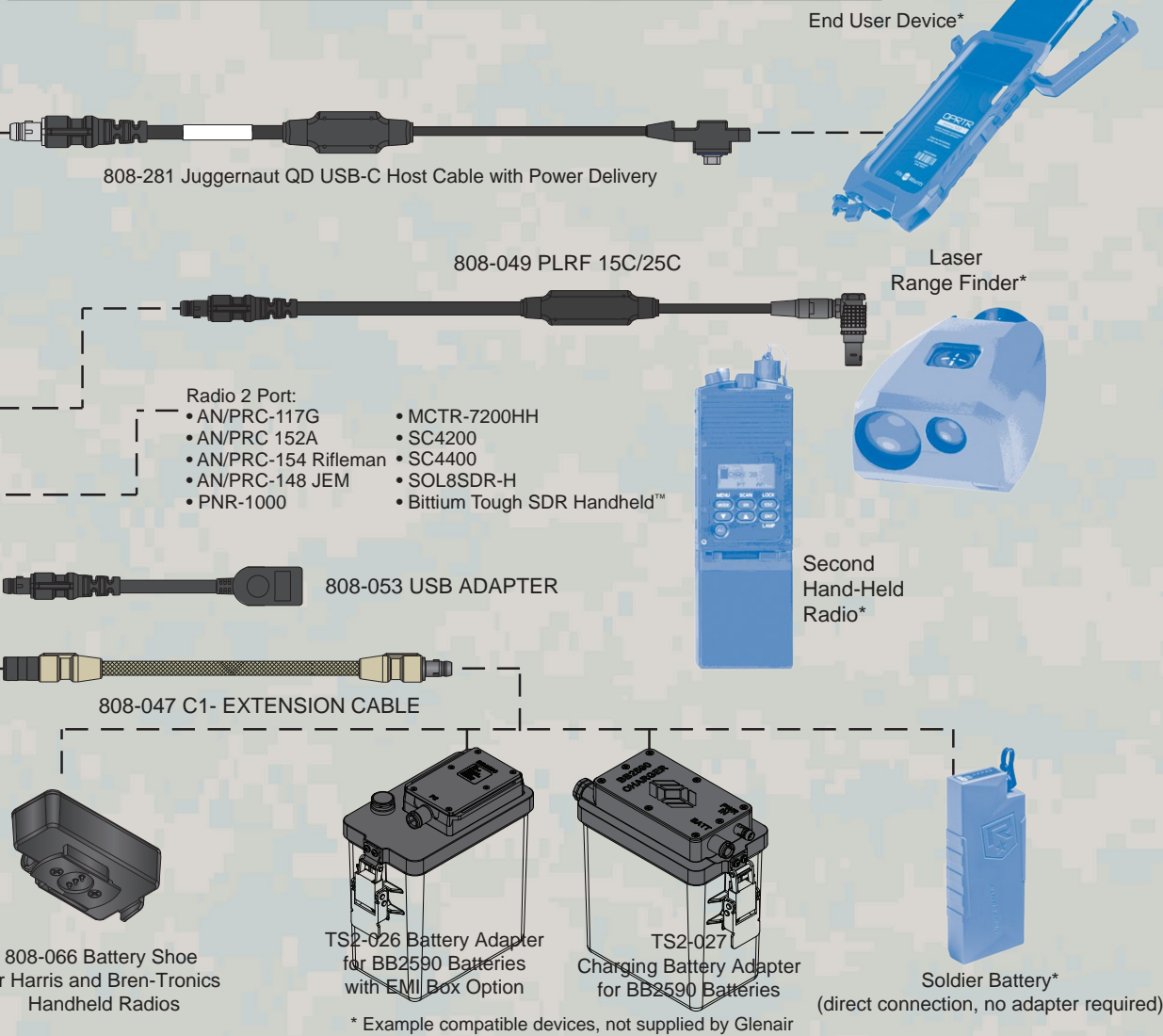## GLENAIR STAR-PAN TECHNOLOGY ILLUSTRATED IN THIS CAPABILITY DIAGRAM

STAR-PAN Component Description	Part Number
STAR-PAN VI Multiport USB and Power Distribution Hub	808-037
STAR-PAN General-Purpose Extension Cable	808-047
PRC 152A Radio Data Adapter	TS8-513
Juggernaut Host Cable with Power Delivery	808-281
DAGR GPS/Navigation Cable	808-040
RT-1922 MicroLight SADL Radio Cable	808-044
TacROVER-E ISR Receiver Cable	808-043
TacROVER-P SIR 2.0 ISR Receiver Cable	808-045
Tactical Net Rover ISR Receiver Cable	808-117
PLRF 15C/25C Laser Range Finder Cable	808-049
USB 2.0 Adapter Cable	808-053
BB2590 Battery Adapter	TS2-026
Radio Power Booster	TS3-022
AC/DC Power Adapter Cable	808-064
STAR-PAN VI Quick-Start User's Guide	990-TS003
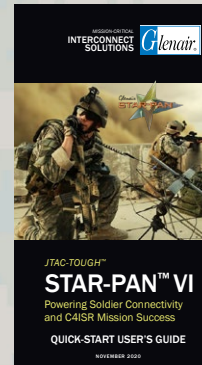
Pocket-Size STAR-PAN VI Quick-Start User's Guide

www.glenair.com/star-pan

MISSION-CRITICAL INTERCONNECT SOLUTIONS *Glenair*

JTAC-TOUGH™
STAR-PAN™ VI
Powering Soldier Connectivity and C4ISR Mission Success
QUICK-START USER'S GUIDE
NOVEMBER 2020

End User Device*

808-281 Juggernaut QD USB-C Host Cable with Power Delivery

808-049 PLRF 15C/25C

Laser Range Finder*

Radio 2 Port:
- AN/PRC-117G
- AN/PRC 152A
- AN/PRC-154 Rifleman
- AN/PRC-148 JEM
- PNR-1000
- MCTR-7200HH
- SC4200
- SC4400
- SOL8SDR-H
- Bittium Tough SDR Handheld™

808-053 USB ADAPTER

Second Hand-Held Radio*

808-047 C1- EXTENSION CABLE

808-066 Battery Shoe for Harris and Bren-Tronics Handheld Radios

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

TS2-027 Charging Battery Adapter for BB2590 Batteries

Soldier Battery* (direct connection, no adapter required)

* Example compatible devices, not supplied by Glenair

STAR-PAN™ HUBS + ACCESSORIES

**STAR-PAN VI
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:	TS4-009	-C
STAR-PAN MOLLE Pouch	STAR-PAN VI 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	

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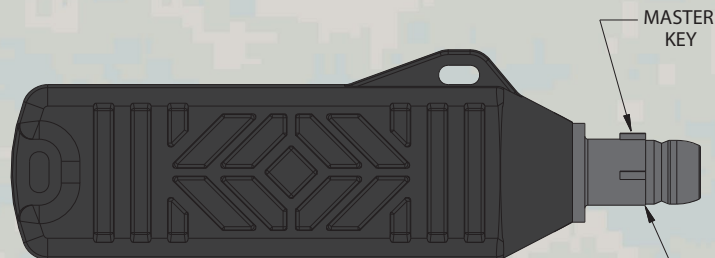
CONNECTOR INTERFACE IAW
8070-1676-06ZNU6-6PY
CAVITY 2 - FMLB

STAR-PAN™ HUBS + ACCESSORIES

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

General-Purpose STAR-PAN 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

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**]		

HUB PORT DESIGNATOR:
PAN

OVERALL LENGTH "L"

MASTER KEY

P1

WIRE, FLEXIBLE TPU INSULATED
TIN PLATED COPPER

BRAIDED SHEILD, HIGH STRAND
TIN PLATED COPPER BRAID

OUTER BRAID,
NOMEX SLEEVING or
BLACK SANTOPRENE

MASTER KEY

P2

(PART NUMBER)
GLENAIR YYWW
06324

GLENAIR CONNECTOR,
8070-1676-06ZNU6-6PY-422B
PIN 2 IS FMLB

SHRINK LABEL
M23053/5 (BLK)
COVERED W/
M23053/18 (CLR)

TPE OVERMOLD
TYP. 2

GLENAIR CONNECTOR
8070-1675-01ZNU6-6SY-422B

-S OPTION
(SEE P/N DEVELOPMENT)