MISSION-CRITICAL
INTERCONNECT SOLUTIONS

Glenair®

ANNOUNCING

STAR-PAN™ NG

Next-Generation STAR-PAN Multiport USB Hub, Cable, and Power Management System

MAY 2023

ANNOUNCING

STAR-PAN™ NG

Next-Generation STAR-PAN Multiport USB Hub, Cable, and Power Management Systems

Glenair next-generation STAR-PAN NG hub and cable systems incorporate a broad range of new capabilities in direct response to requests from JTACs, special operations forces, mission commanders, and other military specialists. Design innovations in STAR-PAN NG have resulted in higher current-carrying capabilities, greater versatility in power input support, and real-time plug-and-play USB device integration. The STAR-PAN NG hub and cable series offers a number of new interface improvements and circuit board innovations including:

- A new 8A per-pin power connector design in the same dimensional package as our original 5 amp series 807 NATO STANAG 4695 push-pull connector. The new connector design features a retractable pin number 7 for backwards-compatibility to legacy devices.
- Previous generation STAR-PAN hubs have dedicated power ports for battery power, auxiliary power, and radio power. New STAR-PAN NG Universal Power Ports (UPP) may be used interchangeably for any format of input or output power. The Universal Power Port interface supports both higher voltage input power and managed 5V output power to charging devices.
- STAR-PAN NG now incorporates an advanced host port with native USB-C "negotiation" and power integration—meaning power pin assignments are in conformance with the new standard, are backward-compatible to previous USB iterations, and deliver higher overall power levels. Daisy chaining of multiple EUD devices for power input is also enabled via the new host port and circuit board.
- Ongoing support of evolving USB protocols requires keeping pace with higher data rates, in this case support for the new USB 3.2 Gen 1 5Gbps standard. STAR-PAN NG X Base Station, our new 10-port "walk-on, walk-off" vehicle / soldier hub features board upgrades and interconnect interfaces in accordance with this new data rate standard.

- **Versatile 1, 2, 3, and 4 PAN port-equipped hub configurations**
- **Universal Power Ports with embedded power charging**
- **Integrated MISSION MANAGER for plug-and-play device integration**
- **Circuit board level USB-C power integration and delivery**
- **Precision-machined hub bodies, IAW MIL-STD-810 harsh-environment, IP67 dust/water resistant**
- **Support for 5Gb/s data transmission (STAR-PAN NG X Base Station only)**
- **Standard NG solutions and custom configurations**

Export of STAR-PAN™ outside of the U.S. is controlled by the U.S. Department of Commerce Export Administration. See individual product pages for details. Consult factory for technology / hardware licensing information.

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WARFIGHTER-TOUGH

STAR-PAN NG

Next-Generation Multiport USB Hub, Cable, and Power Management Systems

STAR-PAN NG SOLDIER HUB SELECTION GUIDE

STAR-PAN NG 1/2
our smallest hub with one EUD port, one pan port and two universal power ports

STAR-PAN NG 2/2
the next step up with one EUD port, two pan ports and two universal power ports

STAR-PAN NG 3/3
Next-generation design with one EUD port, three pan ports and three Universal Power ports

STAR-PAN NG 4/4
Next-generation design with one EUD port, four pan ports and four Universal Power ports

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PUSH-PULL QDC

Nett Warrior Power and Data Connectors

Series 807 Mighty Mouse NW micro miniature connectors for dismounted soldier battery charging, radio, and PAN applications

Today's warfighters demand quick battery charging and reliable radio operation. Glenair pioneered the original 6-pin Nett Warrior connector, as well as a second-generation 7-pin series with USB-C power integration and delivery. Now Glenair is introducing a signature 10 Amp Crown Ring contact-equipped version for higher-current applications that easily integrates into US / NATO, Nett Warrior, and STAR-PAN hub and cable systems. Contacts are capable of carrying 10 amps of current across 3 separate channels with less than 30°C of temperature rise. Electrical resistance remains consistent across 2000 mating cycles. Best of all, Glenair has integrated the new 10 Amp contact connectors into our next-generation STAR-PAN NG platform, ensuring intelligent, system-wide handling of warfighter electronic equipment—for both 10 Amp-capable devices as well as lower-power legacy hardware.

Glenair STAR-PAN NG hubs and cables—now equipped with 10 Amp Crown Ring contact receptacles—are smart devices capable of managing next-generation high-power equipment as well as lower-power legacy devices.

SERIES 807 MIGHTY MOUSE NW CONNECTOR LINE

All designs backward-compatible with current and legacy Nett Warrior hardware

- **Original 6-pin Nett Warrior plugs and receptacles**
- **Backward-compatible 7-pin series with USB-C power integration and delivery**
- **New 10 Amp receptacles for higher-current soldier battery, radio, and PAN C4ISR equipment**

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US ARMY AND NATO QUALIFIED

Nett Warrior Connectors

For STAR-PAN hub systems, Nett Warrior C4ISR hardware, next-gen and legacy radios and batteries

JTAC-TOUGH 807 NW QUALIFIED

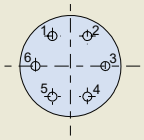
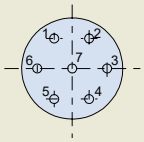
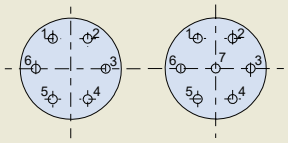
STAR-PAN™

QUALIFIED FOR USE WITH ALL STAR-PAN AND STAR-PAN NG POWER / DATA HUBS

Glenair Signature Mighty Mouse 807 NW connectors are available in pigtail and point-to-point cables for all US/NATO soldier C4ISR devices.

MATERIALS / FINISH

- Shell: Al alloy / ZNU plated
- Contacts: Cu alloy / Au plated
- Insulators: Rigid dielectric
- O-rings: Fluorosilicone

Series 807 NW Nett Warrior Connector Insert Arrangements
 Original NSN-Listed 6-Pin (Nett Warrior Program)
 7-Pin USB-C Power Series NATO STANAG 4695 Approved
 10-Amp STAR-PAN NG Series 6-6 and 6-7 Arrangements

SERIES 807 MIGHTY MOUSE NW CONNECTOR LINE: HOW-TO-ORDER

In-line cable plug

Panel-mount plug

In-line cable receptacle

Panel-mount receptacle

Series 807 NW Plugs (6 pin)	Crimp	PC Tail	Solder Cup	In-Line	Rear Mount Jam Nut	Front Mount Jam Nut
8070-1676-06ZNU6-6PY	X			X		
807-871-06ZNU6-6PY	X			X		
807-309-06ZNU6-6PY			X	X		
8070-1153-07ZNU6-6EC			X		X	
8070-1153-07ZNU6-6PC		X			X	
8070-1153-00ZNU6-6EC			X			X
8070-1153-00ZNU6-6PC		X				X
Series 807 NW Receptacles (6 socket)	**Crimp**	**PC Tail**	**Solder Cup**	**In-Line**	**Rear Mount Jam Nut**	**Front Mount Jam Nut**
8070-1675-01ZNU6-6SY	X			X		
8070-1675-07ZNU6-6SY	X				X	
8070-1675-00ZNU6-6SY	X					X
807-874-01ZNU6-6SY	X			X		
807-874-00ZNU6-6SY	X					X
807-874-07ZNU6-6SY	X				X	
807-348-01ZNU6-6SY			X	X		
807-216-07ZNU6-6SY			X		X	
807-216-01ZNU6-6SY			X	X		
807-216-00ZNU6-6SY			X			X
807-216-07ZNU6-6DY		X			X	
807-216-01ZNU6-6DY		X		X		
807-216-00ZNU6-6DY		X				X
Series 807 NW Plugs (7 pin)	**Crimp**	**PC Tail**	**Solder Cup**	**In-Line**	**Rear Mount Jam Nut**	**Front Mount Jam Nut**
8070-1676-06ZNU6-7PY	X			X		
807-871-06ZNU6-7PY	X			X		
Series 807 NW Receptacles (7 socket)	**Crimp**	**PC Tail**	**Solder Cup**	**In-Line**	**Rear Mount Jam Nut**	**Front Mount Jam Nut**
8070-1675-01ZNU6-7SY	X			X		
8070-1675-07ZNU6-7SY	X				X	
8070-1675-00ZNU6-7SY	X					X
807-874-01ZNU6-7SY	X			X		
807-874-00ZNU6-7SY	X					X
807-874-07ZNU6-7SY	X				X	
8070-1299-ZNU6-7DY		X				X
Series 807 NW Receptacles (10 Amp)	**Pigtail Assembly**	**PC Tail**	**Solder Cup**	**In-Line**	**Rear Mount Jam Nut**	**Front Mount Jam Nut**
8071-6924	X			X		
8070-3151-07ZNU6-6SY		X			X	

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STAR-PAN™ NG 1/2 and 2/2 for Dismounted Infantry and Special Operations

Lightweight, next-generation hub and cable systems enabling situational awareness, comms, and improved power management

Ruggedized soldier-worn electronics have revolutionized mission effectiveness. But radio communications, GPS/navigation, video downlink, and squad network computing have added significant mission weight to the ground soldier and tactical squad ensemble. Glenair STAR-PAN NG 1/2 and STAR-PAN NG 2/2 data hub and power distribution systems enable ground soldiers, special operations squads, and other tactical units to make the most of communication and computing devices, improving situational awareness and reconnaissance, while optimizing battery power monitoring and distribution performance.

Next-generation STAR-PAN NG systems incorporate powerful new capabilities in direct response to user requests and battlefield requirements, including higher-current USB-C power integration, the elimination of dedicated auxiliary, radio, and battery power ports in favor of a new Universal Power Port model, an expanded-capability Host / EUD port, and integrated MISSION MANAGER plug-and-play device integration.

NEW STAR-PAN NG NEXT-GENERATION FEATURES

- **High current connectors**
- **Universal Power Port**
- **USB-C power integration and delivery**
- **Mission Manager device integration**

STAR-PAN STANDARD FEATURES

- **Compliance to both US and NATO STANAG 4695 connector interfaces**
- **Smart battery power management, built-in SMBus battery monitoring**
- **BMA-agnostic hardware**
- **Hot-swappable power sourcing, radio-supplied backup power support**
- **Water immersion IAW MIL-STD-810, IP67-rated dust/water resistant**
- **Intuitive equipment hookup and operation**

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WARFIGHTER-TOUGH

STAR-PAN NG 1/2 and STAR-PAN NG 2/2

Lightweight Hub Systems for Improved Ground Soldier Situational Awareness and Battery Power Management

NEW NEXT-GENERATION STAR-PAN NG 1/2 AND STAR-PAN NG 2/2 FOR DISMOUNTED INFANTRY AND SPECIAL FORCES

- **Full support for all soldier radio types:**
  - L3HARRIS [AN/PRC-117G, AN/PRC-152A, AN/PRC-163, AN/PRC-167]
  - 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™]
  - TrellisWare [TSM Shadow™]

INTEROPERABLE
NATO STANAG 4695
Soldier Power Connectors

STAR-PAN NG 1/2
our smallest hub with one EUD port, one pan port and two universal power ports

STAR-PAN NG 2/2
the next step up with one EUD port, two pan ports and two universal power ports

EXAMPLES OF SUPPORTED RADIO / C4ISR DEVICES USED IN STAR-PAN NG 1/2 AND 2/2 SYSTEMS

SPECIFIC APPLICATIONS

- **Dismounted infantry soldier situational awareness and battery management**
- **Fast-moving special operations forces communications and situational awareness**

Support for L3HARRIS AN/PRC-117G, AN/PRC-152A, PRC-163 with Radio Power Booster

Revision Nerv Centr® SoloPack™ Battery with Adapter Cable

Tactical EUD Juggernaut OPRTR case

Remote Secure Receiver with PAN-to-Port Cable

TacRover TNR 2e Wideband ISR Handheld Transceiver with Adapter Cable

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STAR-PAN™ NG 3/3

Next-generation USB data/ power hub for ground force commanders, UAS and UGV controllers, and other complex tactical mission specialists

Ruggedized soldier-worn electronics have revolutionized mission effectiveness. But the ongoing evolution and complexity of mission profiles that depend on precision targeting, multiple formats of ground and air radio communications, real-time video downlink, GPS/ navigation, and tactical squad networking has added significant weight to the mission commander ensemble. The Glenair STAR-PAN™ NG 3/3 data hub and power distribution system enables ground force commanders and other complex mission specialists to make the most of C4ISR devices, improving situational awareness, surveillance, intelligence, and reconnaissance while optimizing power monitoring and distribution performance.

Next-generation STAR-PAN NG systems incorporate powerful new capabilities in direct response to user requests and battlefield requirements, including higher-current USB-C power integration, the elimination of dedicated auxiliary, radio, and battery power ports in favor of a new Universal Power Port model, an expanded-capability Host / EUD port, and integrated MISSION MANAGER plug-and-play device integration.

NEW STAR-PAN NG NEXT-GENERATION FEATURES

- **High current connectors**
- **Universal Power Port**
- **USB-C power integration and delivery**
- **Mission Manager device integration**

STAR-PAN STANDARD FEATURES

- **Compliance to both US and NATO STANAG 4695 connector interfaces**
- **Smart battery power management, built-in SMBus battery monitoring with integrated charging capability**
- **BMA-agnostic hardware**
- **Hot-swappable power sourcing, radio-supplied backup power support**
- **Water immersion IAW MIL-STD-810, IP67-rated dust/water resistant**
- **Intuitive equipment hookup and operation**

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WARFIGHTER-TOUGH

STAR-PAN NG 3/3

Next-Generation Hub System for Improved Mission Commander Situational Awareness and Control of C4ISR Assets

NEW NEXT-GENERATION STAR-PAN NG 3/3 FOR MISSION COMMANDERS AND OTHER OPERATION SPECIALISTS

- **Full support for all soldier radio types:**
  - L3HARRIS [AN/PRC-117G, AN/PRC-152A, AN/PRC-163, AN/PRC-167]
  - 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™]
  - TrellisWare [TSM Shadow™]

INTEROPERABLE
NATO STANAG 4695
Soldier Power Connectors

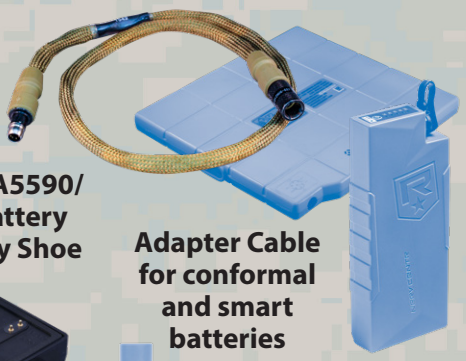
STAR-PAN NG 3/3
Next-generation design with one EUD port, three pan ports and three Universal Power ports

EXAMPLES OF SUPPORTED RADIO / C4ISR DEVICES USED IN STAR-PAN NG 3/3 INTEGRATED SYSTEMS

Tactical EUD Juggernaut OPRTR case

Radio Power Booster for L3HARRIS Silvus, and other radios

Auxiliary BA5590/ BB2590 Battery with Battery Shoe



Adapter Cable for conformal and smart batteries

Safran Vectronix STERNA TNF with Data Cable

Remote Secure Receiver with PAN-to-Port Cable

TacRover TNR 2e Wideband ISR Handheld Transceiver with Adapter Cable

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STAR-PAN™ NG 4/4

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

Digitally Aided Close Air Support or DACAS is a specialized mission profile coordinating air and ground targeting and fires control. The Joint Terminal Attack Controller, or JTAC, is the specialized authority on the ground who, in coordination with air and ground commanders, controls the maneuvering and targeting of air assets and ultimately grants weapons release clearance to attacking aircraft, utilizing a dizzying array of digital equipment including multiple radio comm formats, digital video downlink, surveillance and targeting, drone reconaissance, and more. The STAR-PAN™ NG 4/4 integrated system is designed to perfectly mesh with JTAC requirements for radio, power, and peripheral device support to extend the length and effectiveness of JTAC / DACAS missions.

Next-generation STAR-PAN NG systems incorporate powerful new capabilities in direct response to user requests and battlefield requirements, including higher-current USB-C power integration, the elimination of dedicated auxiliary, radio, and battery power ports in favor of a new Universal Power Port model, an expanded-capability Host / EUD port, and integrated MISSION MANAGER plug-and-play device integration.

NEW STAR-PAN NG NEXT-GENERATION FEATURES

- **High current connectors**
- **Universal Power Port**
- **USB-C power integration and delivery**
- **Mission Manager device integration**

STAR-PAN STANDARD FEATURES

- **Compliance to both US and NATO STANAG 4695 connector interfaces**
- **Smart battery power management, built-in SMBus battery monitoring with integrated charging capability**
- **BMA-agnostic hardware**
- **Hot-swappable power sourcing, radio-supplied backup power support**
- **Water immersion IAW MIL-STD-810, IP67-rated dust/water resistant**
- **Intuitive equipment hookup and operation**

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WARFIGHTER-TOUGH

STAR-PAN NG 4/4

Next-Generation Integrated System Providing Power / Data Hub Support for Digitally Aided Close Air Support Missions

NEW NEXT-GENERATION STAR-PAN NG 4/4 FOR JOINT TERMINAL ATTACK CONTROLLER (JTAC) MISSIONS

- **Full support for all soldier radio types:**
  - L3HARRIS [AN/PRC-117G, AN/PRC-152A, AN/PRC-163, AN/PRC-167]
  - 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™]
  - TrellisWare [TSM Shadow™]

STAR-PAN NG 4/4
Next-generation design with one EUD port, four pan ports and four Universal Power ports

INTEROPERABLE
NATO STANAG 4695
Soldier Power Connectors

EXAMPLES OF SUPPORTED RADIO / C4ISR DEVICES USED IN STAR-PAN 4/4 INTEGRATED SYSTEMS

Tactical EUD Juggernaut OPRTR case

Radio Power Booster for L3HARRIS Silvus, and other radios

Second Hand-Held Radio with Cable

Support for Conformal Wearable Batteries including 8A CWB from Bren-Tronics

USB Adapter Cable for One Additional Device

AN/PRC-167 and other man-pack / vehicle-mounted radio compatibility

Auxiliary BA5590/ BB2590 Battery with Battery Shoe

JIM Compact with Data Cable

Remote Secure Receiver with PAN-to-Port Cable

TacRover TNR 2e Wideband ISR Handheld Transceiver with Adapter Cable

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STAR-PAN™ NG X BASE STATION

Next-generation walk-on, walk-off soldier connectivity and charging device for vehicle and other transport platforms

Integration of soldier C4ISR capabilities on an existing fleet of land, air, and maritime platforms is proving to be a challenge for many NATO members. STAR-PAN™ NG X 10-Port Base Station is a next-generation multi-port data and power hub for platform-based soldier power and C4ISR integration. STAR-PAN NG X 10-port Base Station supports USB 3.2 Gen 1 high-speed data rates and 8 Amp power delivery. This allows soldiers to directly connect portable soldier power and data systems to the transportation platform's network for charging and data sharing—enabling soldier access to latest BMS information while transporting in a vehicle, helicopter, or vessel.

The principal benefit here is ongoing enhancement of soldier situational awareness as well as critical charging of unit batteries. STAR-PAN NG X incorporates an embedded MISSION MANAGER with upgraded processing power enabling it to act as a tactical edge computing device running any Battlefield Management System (BMS). STAR-PAN NG X incorporates all STAR-PAN standard features as well as next-generation Universal Power Ports, an expanded capability Host / EUD port, and full support for USB 3.2 Gen 1 peripherals.

NEW STAR-PAN NG NEXT-GENERATION FEATURES

- **High current connectors**
- **Universal Power Ports**
- **Advanced host port**
- **USB 3.2 Gen 1 (5 Gbps) availability**

STAR-PAN STANDARD FEATURES

- **Compliance to both US and NATO STANAG 4695 connector interfaces**
- **Smart battery power management, built-in SMBus to USB conversion**
- **BMA-agnostic hardware**
- **Hot-swappable power sourcing, radio-supplied backup power support**
- **Water immersion IAW MIL-STD-810, IP67-rated dust/water resistant**
- **Intuitive equipment hookup and operation**

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WARFIGHTER-TOUGH

STAR-PAN NG X Base Station

Next-Generation Portable Base Station Unit for Convenient Vehicle-to-Soldier Data Uplink and Charging

SPECIFICATIONS

- PAN ports for up to ten soldier devices
- HDMI and Ethernet ports
- Integrated STAR-PAN MISSION MANAGER functionality
- Two USB 3.0 ports
- Three Universal Power Ports
- Glenair power port management
- Smart battery charging from auxiliary power
- Up to 5A battery power per port, 20A system total
- Up to 2A 5 Volt VBUS power per port, 10A across all ports
- Precision-machined construction, integrated connectors

STAR-PAN NG X BASE STATION APPLICATIONS

- Armored personnel carriers
- Land and air troop transports
- Landing craft and other Naval vessels
- Command posts and shelters

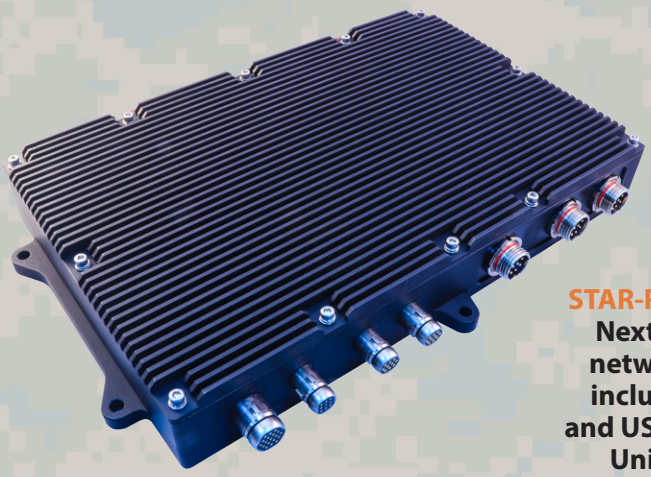
STAR-PAN NG X CABLE PART NUMBERS

BB259 BATTERY CABLE ADAPTER	TS8-496
AC PWR SUPPLY CABLE ADAPTER	TS8-497
USB 3.0 CABLE ASSEMBLY	TS1-039
CAT 5E ETHERNET CABLE	TS1-040
HDMI TYPE A CABLE ASSEMBLY	TS1-041
USB 2.0 DONGLE	TS3-001
General-Purpose Extension Cable	TS1-069

OVERVIEW

STAR-PAN NG X 10-Port Base Station is a multi-port data and power hub for platform-based C4ISR integration. STAR-PAN NG X 10-port Base Station provides the same NATO standard interconnect interface as soldier-worn STAR-PAN systems, making it completely interoperable with the existing portfolio of cables and adapters, and allowing easy soldier interconnection to the platform's data and power network. With STAR-PAN NG X, Dismounted soldiers can connect to the vehicle power and data accessing on-board radios and sensors via a single cable connection and/or access data through the WiFi-network when operating in the vicinity of the vehicle.

INTEROPERABLE
NATO STANAG 4695
Soldier Power Connectors



STAR-PAN NG X Base Station
Next-generation vehicle network interface design includes HDMI, Ethernet, and USB 3.0 ports, plus three Universal Power Ports

USB 3.0 Cable Assembly
TS1-039

Cat5E Ethernet Cable Assembly
TS1-040

HDMI Type A Cable Assembly
TS1-041

AC Power Supply Adapter Assembly
TS8-497

USB 2.0 Dongle
TS3-001

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Glenair
SIGNATURE SERIES

Military / Defense Interconnect Solutions

For Land, Sea, Air, and Space Applications

VITA 67.3 SMPM and SMPS RF connectors, contacts, and accessories

TURNKEY INTERCONNECT ASSEMBLIES FOR MILITARY DEFENSE APPLICATIONS

Complex Cable and Wire Protection Conduit Assemblies

Integrated Flex / Rigid Flex Circuit Assemblies

Aerospace-Grade Fiber Optic Interconnect Assemblies

Turnkey High-Frequency RF Coax Interconnect Assemblies

GROUND SOLDIER / TACTICAL CONNECTORS AND CABLES

Series 807 Mighty Mouse Nett Warrior Connectors and STAR-PAN™ Data Hubs

Nanominiature SuperFly® Tactical Interconnects

HiPer 55116™ "Better Than QPL" Field Audio Connectors

SealTac™ and Mighty Mouse Tactical Soldier Connectors

MILITARY VEHICLE CONNECTORS AND HARSH-ENVIRONMENT WIRE PROTECTION

SuperSeal™ Ruggedized Field RJ45 and USB Solutions

PowerTrip™ Connectors for Extreme Environments

TurboFlex® Ultra-Flexible Rugged Power Cable

Heat and AutoShrink Boots and Molded Shapes

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AEROSPACE AND MISSILE SYSTEM APPLICATIONS

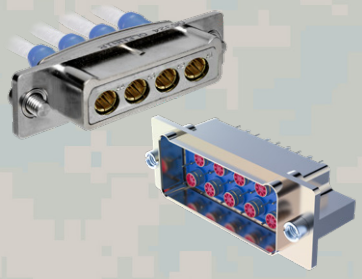
El Ochito® and other Signature
High-Speed Interconnects

SuperNine® "Better Than QPL"
MIL-DTL-38999 Series III

Series 806 Mil-Aero with
Optimized SWaP

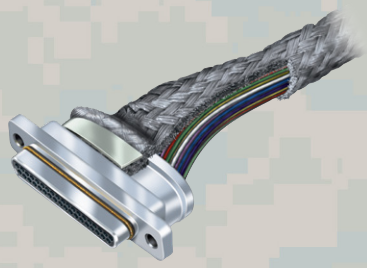
SuperFly® Datalink
Nano High-Speed

Series 28 HiPer-D®
High-Performance M24308

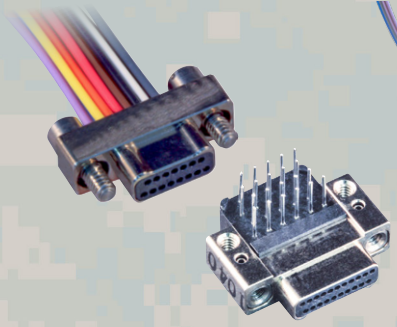


Series 791™ / 792™ Crimp-Contact
High-Density Rectangular

HD Stacker™
High-Density Board-to-Board



MIL-DTL-83513 Micro-D
QPL and COTS Derivatives



MIL-DTL-32139 Nano
QPL and COTS Rectangulars

High-Speed, High-Datarate
Fiber Optics

Special-Purpose Circulars:
EMI/RFI Filters and Hermetics

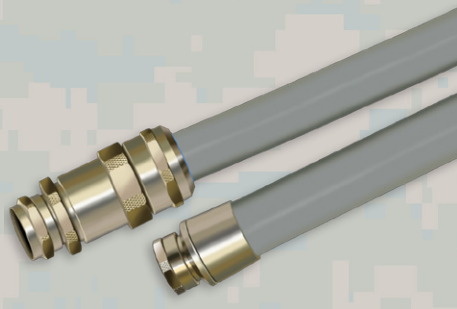
Glenair Signature
Backshells and Accessories

NAVY / SHIPBOARD APPLICATIONS

MIL-DTL-28840 QPL Navy
Shipboard Interconnects

MIL-PRF-28876 QPL Navy
Fiber Optic Interconnects

QPL and Glenair Signature
Lightweight Ground Straps



MIL-PRF-24758A US Navy
Qualified Conduit System

MISSION-CRITICAL

INTERCONNECT SOLUTIONS

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