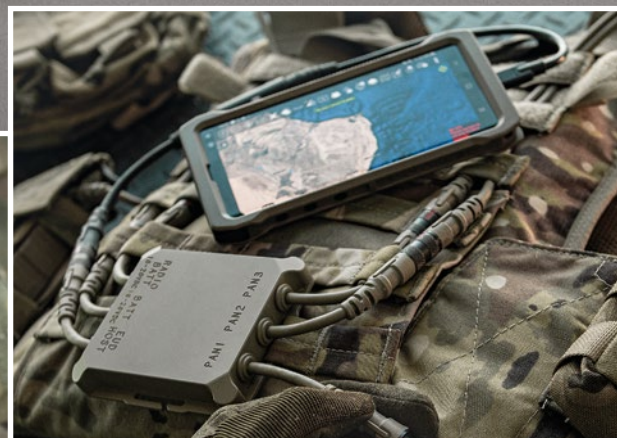
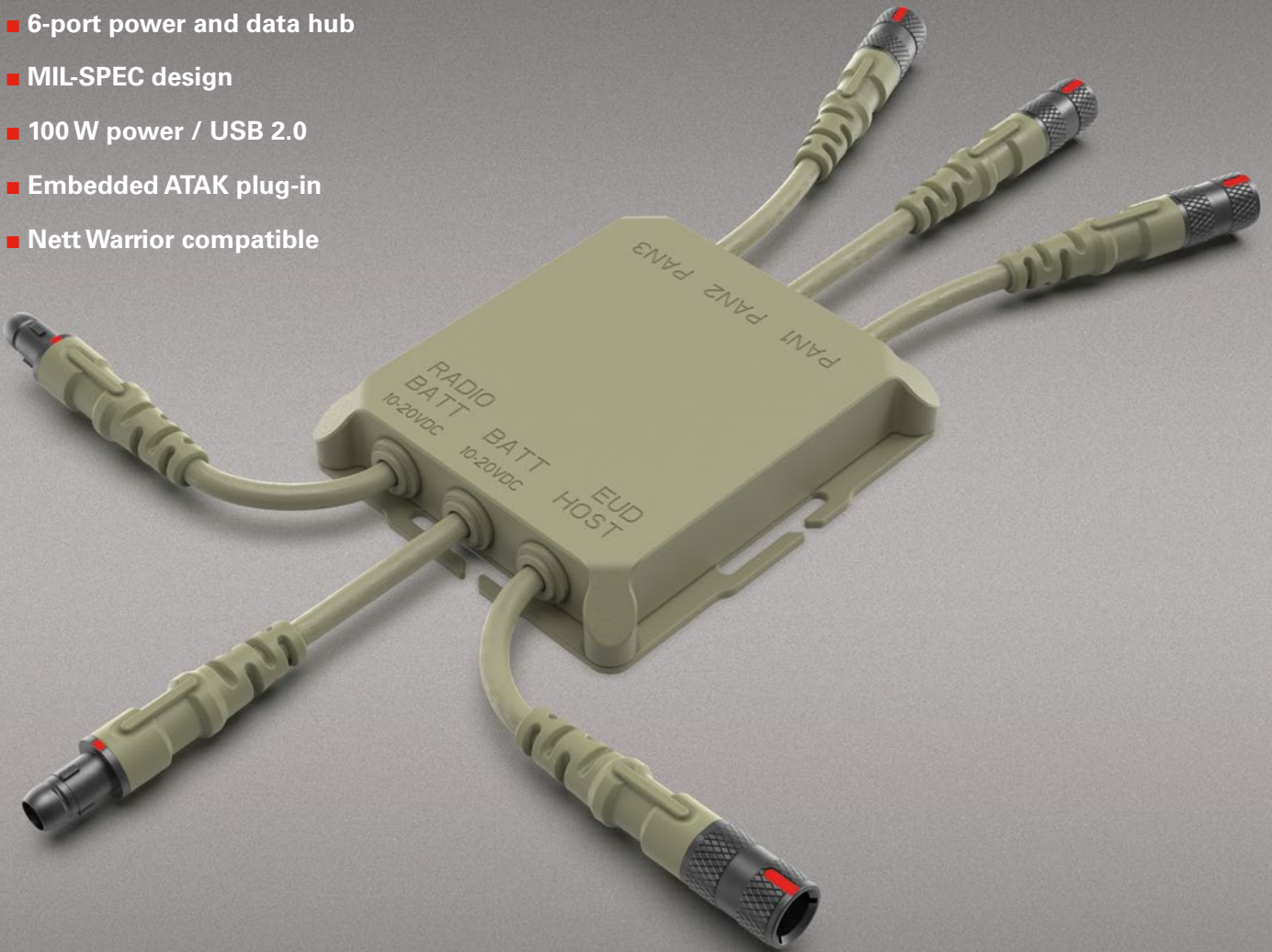




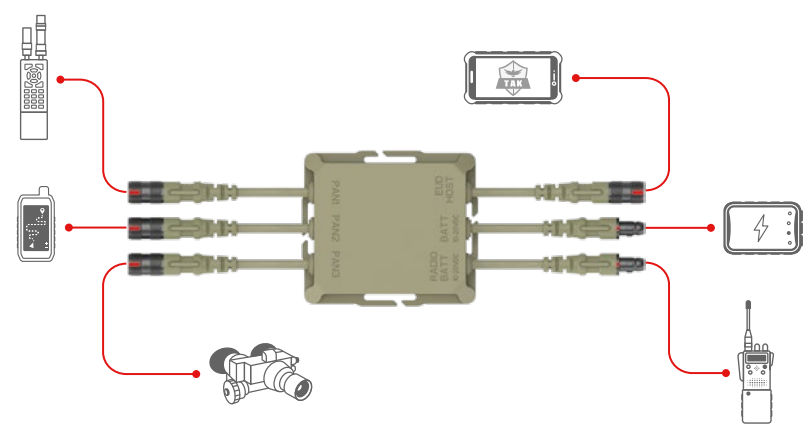
FISCHER KEYSTONE 6 TACTICAL HUB

- 6-port power and data hub
- MIL-SPEC design
- 100 W power / USB 2.0
- Embedded ATAK plug-in
- Nett Warrior compatible



PRODUCT DESCRIPTION

DATA AND POWER HUB – SYSTEM OVERVIEW



The Fischer KEYSTONE 6 Tactical Hub is the heart of the individual soldier connectivity solution, integrating power and data flows from sights, radios, displays and batteries in a lightweight ergonomic component.

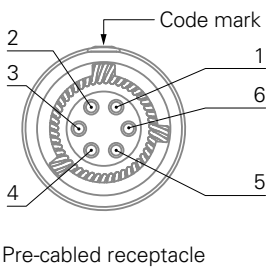
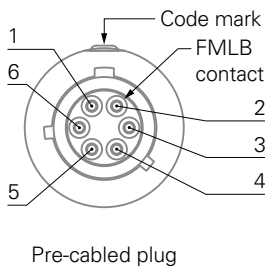
KEYSTONE 6 is designed to meet U.S. Army standards for the Next Generation Hub (NGH).

NETT WARRIOR INTERFACES

Pin ID	Power ports (plugs)	PAN/EUD ports (receptacles)
1	Direct Battery Voltage (V _{BATT} : [10-20] V DC, 5 A max)	Direct Battery Voltage (V _{BATT} : [10-20] V DC, 5 A max)
2	Ground	Ground
3	5 V DC IN*	5 V DC OUT**
4	USB+ / SMBus Data	USB+
5	USB- / SMBus Clock	USB-
6	NC	CC line***

*Only on RADIO/BATT port
**EUD port: INPUT/OUTPUT
***EUD port only

Connector front view



STANDARD CABLE ASSEMBLY AND CONNECTOR

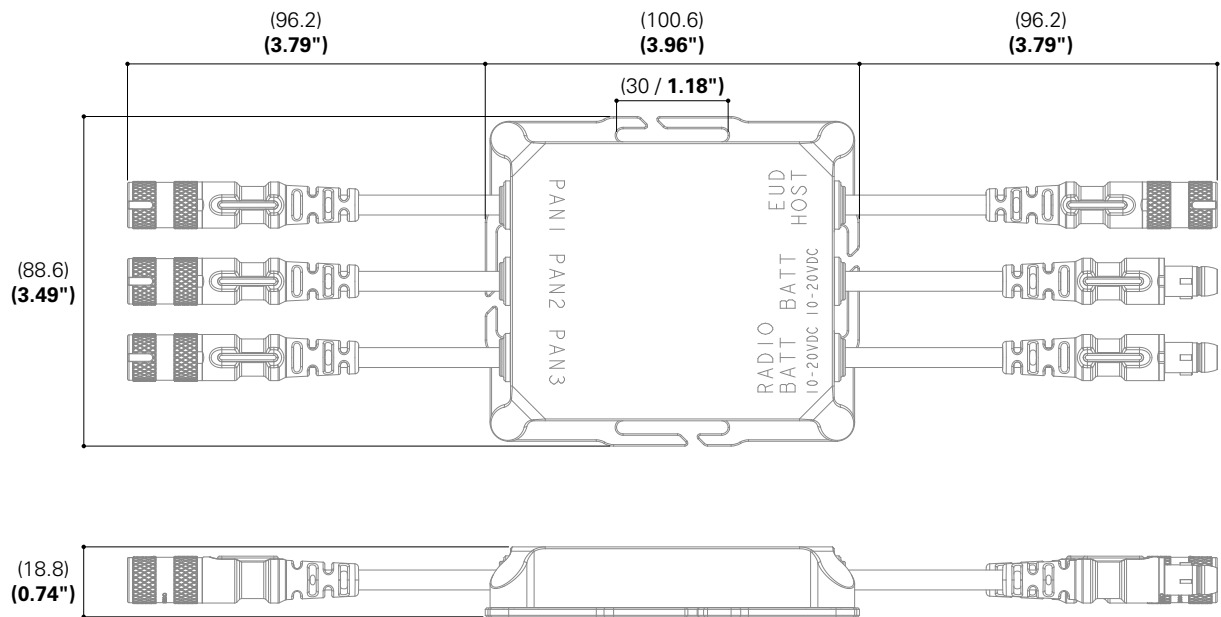
Description	Color	Lengths Part no.		
Nett Warrior plug-to-receptacle cable	TAN 499*	0.3 m 139292	0.5 m 142618	0.75 m 142619
Nett Warrior receptacle-to-receptacle cable	TAN 499*	0.3 m 142151	0.5 m 142622	0.75 m 142623
Nett Warrior plug-to-plug cable	TAN 499*	0.3 m 142157	0.5 m 142626	0.75 m 142627
Nett Warrior pre-cabled plug	TAN 499*	–	–	1 m 140599
Nett Warrior pre-cabled receptacle	TAN 499*	–	–	1 m 140601
Nett Warrior plug-to-USB-C for EUDs	BLACK	0.3 m 141421	–	–
Nett Warrior plug-to-USB 2.0 type A plug	BLACK	0.3 m 139297	–	–
Nett Warrior plug-to-USB 2.0 type A receptacle	BLACK	0.3 m 139298	–	–
Nett Warrior plug to RJ45 receptacle	BLACK	–	0.55 m 141428	–
Rear mounted panel receptacle (Solder)	BLACK	–	137855	
Rear mounted panel receptacle (PCB)	BLACK	–	136793	
Other options available on request				

*Also available in BLACK (for part numbers, refer to the Fischer KEYSTONE™ Technical Specifications on [fischerconnectors.com](https://www.fischerconnectors.com)).

KEY FEATURES

DIMENSIONS

in millimeters / in inches



SOFTWARE / FIRMWARE

Android power management application	▪ Battery power status ▪ PAN management: monitoring and control of power and data for each port
Android Team Awareness Kit (ATAK)	▪ Plug-in available for power management application in ATAK
Security	▪ Only booting signed software – verified using a SHA256 checksum and an ECC256 signature ▪ Software update files are encrypted using an AES 256 encryption
Certification	▪ FIPS 140-2/3 capable

ELECTRICAL

EUD / HOST	USB power	EUD charge up to 1.5 A via integrated Power delivery
	Output power	Unregulated 10-20 VBATT, up to 5 A
PAN 1/2/3	USB power	Regulated 5 V DC, up to 2 A per port
	Output power	Unregulated 10-20 VBATT, up to 5 A
HUB output power	USB	Up to 6 A 5 V DC across combined EUD / HOST and PAN 1/2/3 ports, 5 A system total
	VBATT	Up to 5 A 10-20 VBATT, across combined EUD / HOST and PAN 1/2/3 ports, 5 A system total
BATT, RADIO/BATT input power		10-20 VBATT, 5 A max
BATT SMBus		Versions 1.0/1.1 compatible
Communication protocol		USB 2.0
Fault mode protection		Over current, over voltage and back-power

MATERIAL AND MECHANICAL

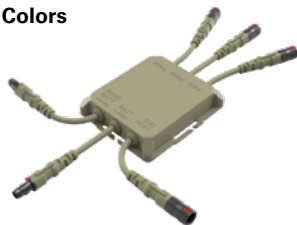
Housing material	Aluminum
Finish	TAN 499 or BLACK
Weight	241 g (8.5 oz)
Mounting	MOLLE mount built in
Pull force – pigtail cables	>100 lbs. (>450 N)

ENVIRONMENTAL

Temperature	Storage: -40 °C to +60 °C Operating: -32 °C to +55 °C	MIL-STD-810G, Procedure I of Method 501 MIL-STD-810G, Procedure II of Method 501
Altitude	Storage: up to +12,192 m Operating: up to +9,754 m Rapid decompression: from 2,438 to 12,192 m	MIL-STD-810G, Procedure I of Method 500 MIL-STD-810G, Procedure II of Method 500 MIL-STD-810G, Procedure III of Method 500
Sealing	IP68 2m/24 h	MIL-STD-810G, Procedure I of Method 512
Shock	40 G ; 11 ms	MIL-STD-810G, Procedure I of Method 516
Vibration	7.7 Grms ; 1 h per axis	MIL-STD-810G, Procedure I of Method 514.7
Weather conditions	Solar radiation Salt atmosphere Sand and dust Rain and water Fungus	MIL-STD-810G, Method 505, Procedure I MIL-STD-810G, Method 509, Procedure I MIL-STD-810G, Method 510, Procedure I/II MIL-STD-810G, Method 506, Procedure I MIL-STD-810G, Method 508
EMI / EMC	CE101, CE102, CS101, CS114, CS115, CS116, RE101, RE102, RS101, RS103	MIL-STD-461G
Electrostatic Discharge ESD	CS118 Level IV	MIL-STD-461G
Compliance	CE, FCC, UKCA, RoHS and REACH standards	

ACCESSORIES AND OPTIONS

Colors



TAN
Part number 141955



BLACK
Part number 142535

Soft caps



Receptacle
Part number 137800



Plug
Part number 139707

*For more detailed information on the plug interface, please refer to UltiMate 80 Technical Specifications.