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Products

# MILTECH™ 3032

## Advanced Rugged Tactical 6-Port USB 3.2 Gen-2 HUB and Ultra Fast Charger

MILTECH™ 3032 is a rugged, managed tactical ultra fast 6-port USB 3.2 Gen-2 (10Gbps) hub with integrated high-power charging capabilities. It supports advanced charging standards including USB Power Delivery 3.0, Quick Charge 3.0, PPS, as well as legacy charging modes, enabling compatibility with a wide range of mission-specific USB devices. The MILTECH™ 3032 combines ultra fast USB data, multi-device charging, and integrated Gigabit Ethernet network connectivity for the host system in a single unit, providing a compact and efficient solution for modern tactical platforms requiring simultaneous connectivity, power distribution, and network access.

Designed for deployment in ground combat vehicles, field environments, and wearable soldier systems, the unit provides up to six fully independent USB ports supporting full USB 3.2 data rates alongside high-power charging. This enables reliable operation of mission-critical equipment such as smartphones, tablets, radios, body-worn devices, and dedicated tactical systems, while maintaining high data throughput across all ports.

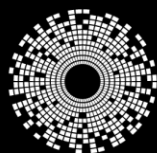
The system supports simultaneous charging of up to six devices, delivering up to 20V/5A per port (configurable via the host system), allowing optimized power allocation based on mission requirements and connected device profiles. Intelligent charging management ensures efficient power distribution and safe operation under varying load conditions.

Integrated Gigabit Ethernet connectivity enables seamless network access for the host system, allowing USB-connected devices to operate within a broader tactical network architecture.

Engineered for harsh environments, the MILTECH™ 3032 designed to meet MIL-STD 461 and MIL-STD 810 and offers IP68 protection, ensuring robust and reliable operation under extreme conditions including shock, vibration, dust, and moisture. The MILTECH™ 3032 provides a compact, fully integrated connectivity and power solution tailored for modern military systems, reducing system complexity while enhancing operational capability and reliability

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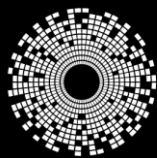
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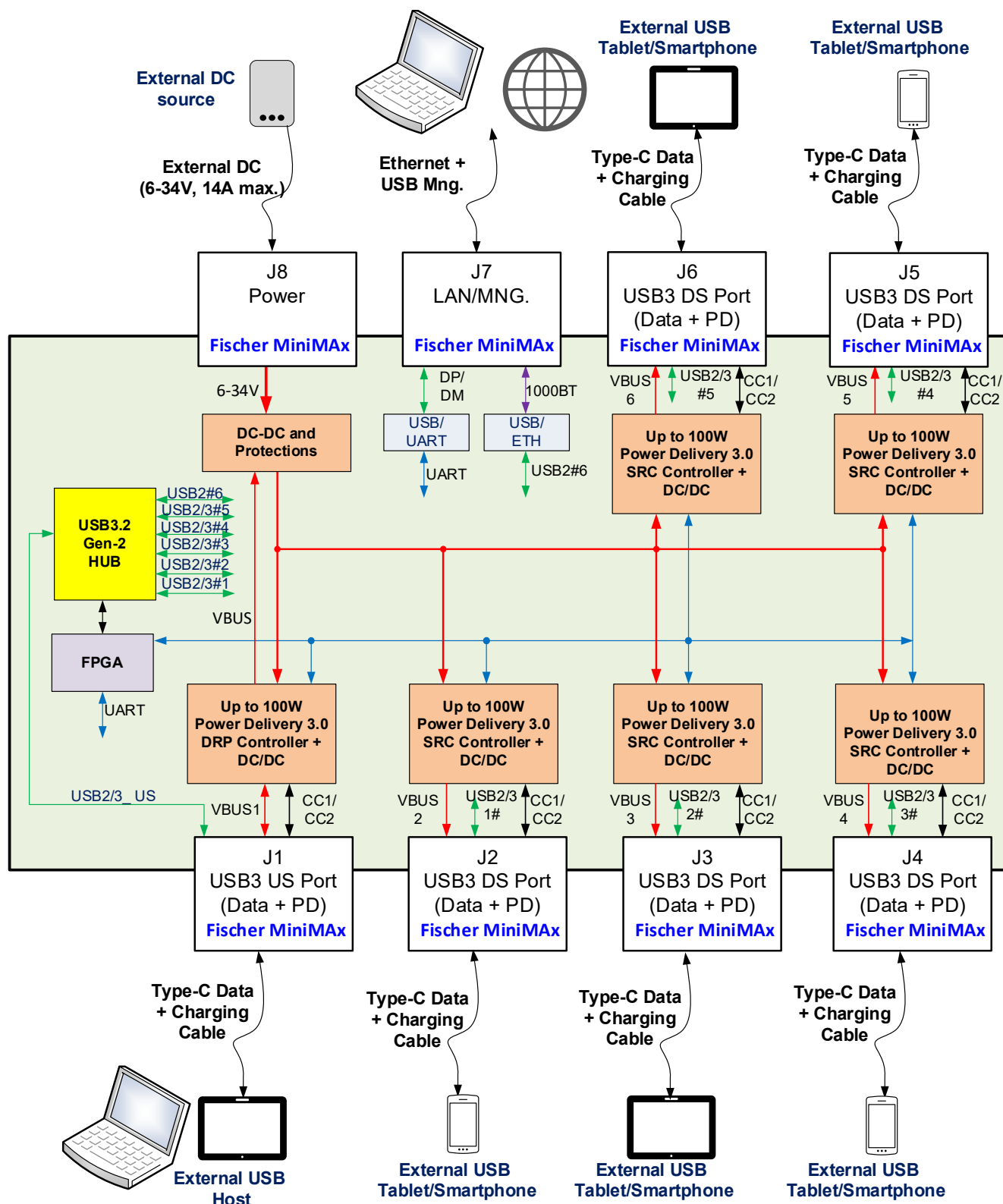
## Specifications

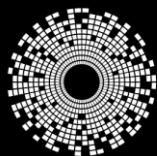
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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HUB PORTS:              | <ul style="list-style-type: none"> <li>1 x USB 2.0/3.2 Gen-2 Upstream (J1)</li> <li>5 x USB 2.0/3.2 Gen-2 Downstream (J2-J6)</li> <li>1 x USB management port (J7)</li> <li>1 x 10/100/1000Base-T (J7)</li> </ul>                                                                                                                                                                                                                                                                                                                                        |
| CONNECTORS:             | <ul style="list-style-type: none"> <li>Power – Fischer MR11WL10 0624 AN2 E1AP</li> <li>USB ports (x6) – Fischer MR11WL10 0309 AN1 E1AP</li> <li>Ethernet/Mng. – Fischer MR11WL10 0624 AN1 E1AP</li> </ul>                                                                                                                                                                                                                                                                                                                                                |
| POWER IN:               | <p>Self Powered Mode (Via J8/Power):</p> <ul style="list-style-type: none"> <li>Input DC range: 6-34 VDC, 14A Max.</li> <li>Protections: Over/Under Voltage, Reverse Polarity</li> </ul> <p>Bus Powered Mode (Via J1/Upstream):</p> <ul style="list-style-type: none"> <li>Input DC: 5VDC, 3A Max.</li> </ul> <p>Note: Power Delivery charging is supported only in Self Powered</p>                                                                                                                                                                     |
| CHARGING:               | <ul style="list-style-type: none"> <li>Charging Capabilities: USB PD/QC 3.0/PPS PDOs, up to 100W (20V/5A) per port (supported in product PN M3032)</li> <li>Supported PDOs per port*: 5V/2A, 5V/3A, 9V/3A, 15V/3A, 20V/3A, 3.3V-16V/5A (PPS), 20V/5A</li> <li>Legacy charging modes also supported</li> </ul> <p>*Note: with total unit input current limit of 14A (unit will manage loads actual charge profiles vs max unit input current). Maximum output power and per-port PDO activation are manageable via the unit's command-line interface.</p> |
| MANAGEMENT:             | <ul style="list-style-type: none"> <li>CLI management port (via J7)</li> <li>Optional unit configurations: per port charge profiles, overall output power limit</li> <li>Built in self test (BIT/CBIT/IBIT)</li> <li>Power, Status (BIT), Speed/Charge (per USB port) and Ethernet Link/Act/Speed Indications LEDs</li> </ul>                                                                                                                                                                                                                            |
| STANDARDS:              | <ul style="list-style-type: none"> <li>Design to meet: MIL-STD-810, MIL-STD-461, IP68</li> <li>Charging: USB PD 3.0, QC 3.0, PPS</li> <li>ROHS/REACH</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                          |
| CHASSIS:                | <ul style="list-style-type: none"> <li>Low profile rugged machined aluminum</li> <li>Conductively cooled</li> <li>Ingress protection against sand, dust, water</li> <li>Chassis grounding</li> </ul>                                                                                                                                                                                                                                                                                                                                                     |
| PHYSICAL:               | <ul style="list-style-type: none"> <li>Dimensions: 122mm (L) x 102mm (W) x 27.5mm (H) – inc. Connectors</li> <li>Weight: 190gr</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                |
| INSTALLATION:           | <ul style="list-style-type: none"> <li>4 mounting threads, #4-40 UNC, 6mm depth</li> <li>MOLLE kit available</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| COOLING:                | <ul style="list-style-type: none"> <li>No moving parts. Passive cooling</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| OPERATING/STORAGE TEMP: | <ul style="list-style-type: none"> <li>-40°C to +85°C (-40°F to +185°F), Cold Start-Up</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



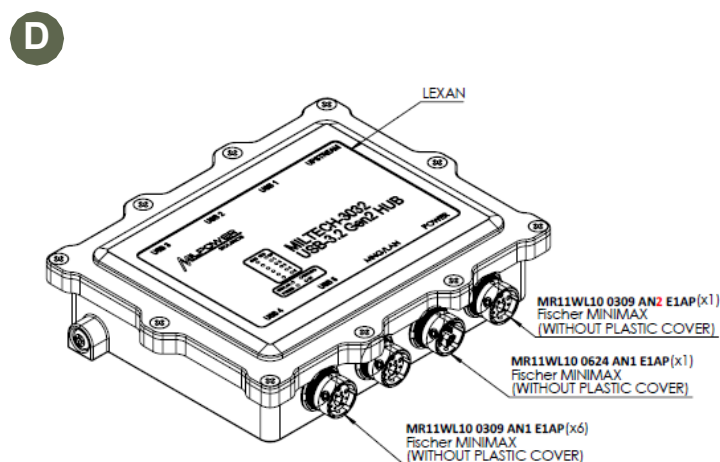
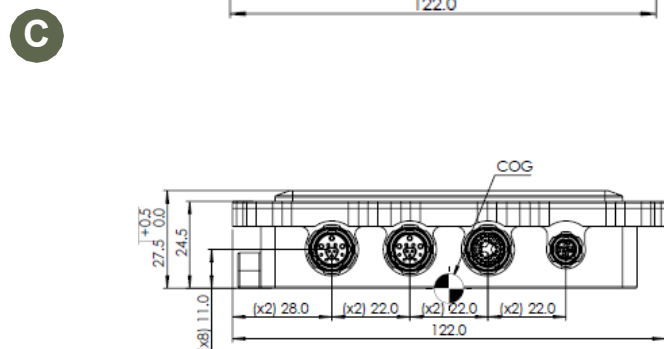
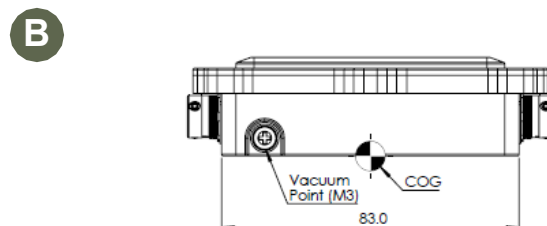
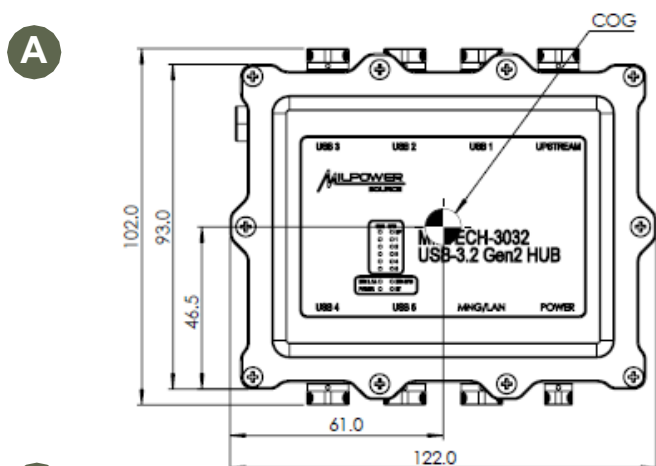


## Application Diagram





## Mechanical Drawing



## Ordering Information

| PART NUMBER     | DESCRIPTION                                                |
|-----------------|------------------------------------------------------------|
| M3032           | 6 port USB 3.2 Gen2 HUB w.100W PD Charging and 1G ETH      |
| M3032-1         | 6 port USB 3.2 Gen2 HUB, w. 1G ETH , w/o Charging          |
| 29-040563-00    | M3032 Cable Kit: 6xUSB-C (1m), 1xLAN/MNG. and 1xPWR (2.5m) |
| 22-3032-0103-00 | M3032 MOLLE Bracket, NATO Green                            |

