

## MILTECH 300-HoB

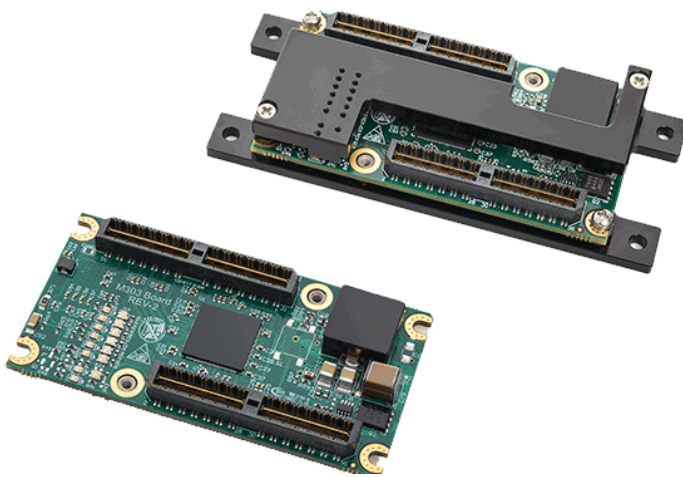
Military Grade USB 3.1 advanced featured Smart HUB On Board (USBHoB)

The MILTECH 300-HoB USB hub enables the connectivity and communication between multiple USB devices and the main computer. This USB hub features 6 USB 3.1 ports each of them also supports battery charging functionality along with regular USB3.1 data path, a dedicated IO port (I<sup>2</sup>C, External Power and GPIO compatible), and a single gigabit Ethernet port.

With a wide input voltage range of 12-28VDC and up to 2A downstream power per port for either charging or powering devices. The MILTECH 300-HoB supports the four most popular battery charging profiles (DCPCDP, SDP and custom profiles) to power and charge USB devices, including portable handhelds, storage, sensors, human interface devices and GPS.

The internal Ethernet interface allows to communicate with upstream devices over a standard Ethernet network, further extending the flexibility of the hub and attached USB devices.

MILTECH 300 designed to withstand MIL-STD-810 environmental compliance and MIL-STD-461 EMI/RFI compliance when installed in an appropriate chassis.



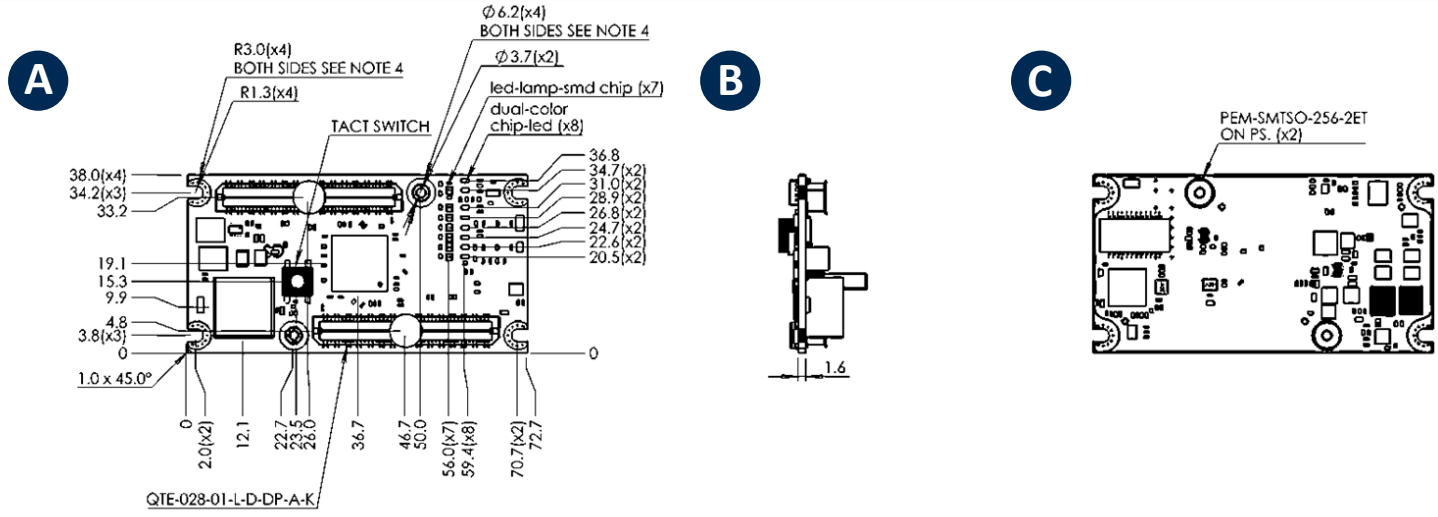
### SPECIFICATIONS

COMMUNICATION PORTS:	<ul style="list-style-type: none"> <li>• Port 1 USB3.1/USB2 upstream port</li> <li>• Port 2-6 USB3.1/USB2 downstream ports</li> <li>• Port 7 Ethernet 10/100/1000BT port via USB to LAN Bridge</li> <li>• Port 8 IO port for I2C/GPIO/External Power Input</li> <li>• Per port LEDs indication</li> </ul>
CONNECTORS:	<ul style="list-style-type: none"> <li>• 2 x Samtec QTE-028-01-L-D-DP-A-K</li> </ul>
STANDARDS:	<ul style="list-style-type: none"> <li>• MILSTD-461, MILSTD-810, IP68</li> <li>*When installed in an appropriate chassis</li> </ul>
BATTERY CHARGE:	<ul style="list-style-type: none"> <li>• High Power Chargers for most popular battery powered devices, via all USB 3.1 downstream ports, up to 2A per port.</li> <li>• Supports the following USB-IF BC1.2 charging profiles: <ul style="list-style-type: none"> <li>- DCP: Dedicated Charging Port (Power brick with no data)</li> <li>- CDP: Charging Downstream Port (1.5A with data)</li> <li>- SDP: Standard Downstream Port (0.5A with data)</li> <li>- Custom profiles loaded via SMBus</li> </ul> </li> <li>• All downstream ports support individual port power control, over-current &amp; Short circuit protection.</li> <li>• Over voltage / Reverse Voltage protections for Self-Powered and VBUS-powered supply sources.</li> <li>• USB ESD Protection up to 17KV (Air) and 12KV (Contact).</li> </ul>



**SPECIFICATIONS**

STANDARD COMPLIANCE:	<ul style="list-style-type: none"> <li>• USB 3.1 (Gen1) Specification - supports 5Gbps SuperSpeed (SS)</li> <li>• 480Mbps High-Speed (HS)</li> <li>• 12Mbps Full-Speed (FS)</li> <li>• 1.5Mbps Low-Speed (LS)</li> </ul>
POWER:	<ul style="list-style-type: none"> <li>• 5VDC (USB) INPUT via Upstream USB Port, or 12-28VDC external power via I/O Power Connector, for high power applications.</li> <li>• Output 5VDC Aggregated up to 15A, and up to 2A per port</li> </ul>
ELECTROMAGNETIC:	<ul style="list-style-type: none"> <li>• MIL-STD-461 Electromagnetic compatibility when installed in an appropriate chassis</li> </ul>
PHYSICAL:	<ul style="list-style-type: none"> <li>• Dimensions: 73mm (L) x 38mm (W) x 11mm (H)</li> <li>• Weight: 24.2gr</li> </ul>
INSTALLATION:	<ul style="list-style-type: none"> <li>• Portable, 4 screws for mounting to any flat surface</li> </ul>
COOLING:	<ul style="list-style-type: none"> <li>• No Moving Parts. Passive Cooling</li> </ul>
TEMPERATURE:	<ul style="list-style-type: none"> <li>• Operational: -40°C to +85°C (-40°F to +185°F) - Cold Start-Up</li> <li>• Storage: -45°C to +85°C (-49°F to +185°F)</li> </ul>



**ORDERING INFORMATION**

PART NUMBER	DESCRIPTION
1-300-000	Military Grade USB 3.1 Smart HUB On Board
1-CP300-000	Cooling base plate for MILTECH300