



MILTECH 718

Ultra Compact Unmanaged/Lightly Managed 8 x 100/1000Base-T Embedded Military Board Level Ethernet Switch

One of the most exciting advancement in technology over the last decade has been unmanned vehicles including:

- Unmanned aerial vehicles (UAVs) or Drones
- Land autonomous vehicles (UGVs)
- Robots
- Other unmanned support vehicles

These vehicles must be agile, compact and highly intelligent. In order to support this sophisticated intelligence, these platforms may have to carry and connect a variety of Ethernet-based devices including computers, sensors, and targeting systems - all in compact platforms that must operate in extreme environmental conditions.



The MILTECH 718 is a rugged, cost-effective, ultracompact board-level Ethernet switching solution (70x40mm). Equipped with 8GbE 10/100/1000Mbps ports, this board - level switch is ideal for integrating system level solutions through single board-to-board connector.

The MILTECH 718 consumes only 5W of power and uses 9-32VDC. Its ruggedized design feature mechanical packaging enhancements designed for MILSTD-461E, MILSTD-810F/G and IP68 compliance when installed in an appropriate enclosure.

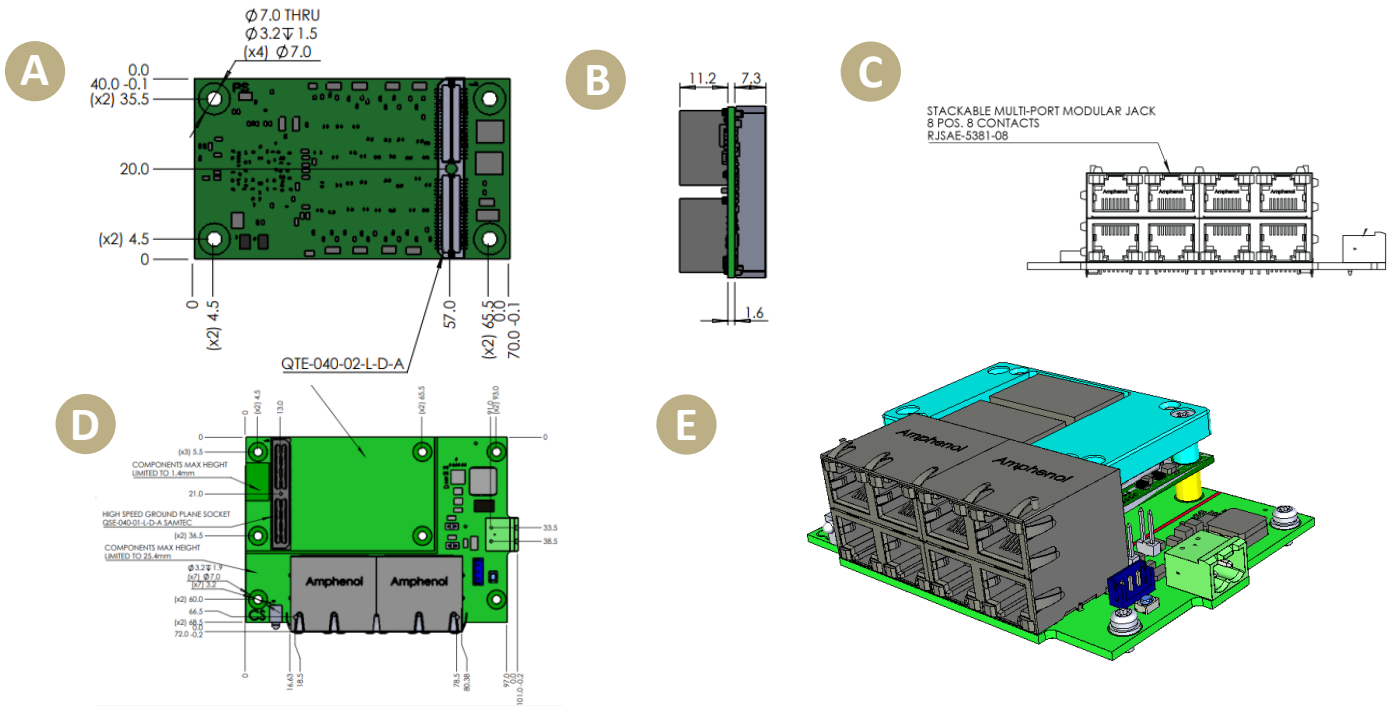
SPECIFICATIONS

ETHERNET PORTS:	<ul style="list-style-type: none"> • 8 x triple-speed 10/100/1000Base-T
MANAGEMENT:	<ul style="list-style-type: none"> • Lightly managed via optional SMI (MDC/MDIO) interface <p>Note: unmanaged when SMI unused (default)</p>
NETWORKING:	<ul style="list-style-type: none"> • Full wire-speed forwarding rate • Cut through switch fabric • Auto MDI, MDI-X • Jumbo frame up to 10K Bytes • 16K mac addresses
CONNECTOR INTERFACE:	<ul style="list-style-type: none"> • Power + LAN Connector: Samtec board to board connector: QTE-040-02-L-D-A
PERFORMANCE:	<ul style="list-style-type: none"> • 2Mbit packet buffer • 25Gbps High-Performance Bandwidth • LED indication (Speed, Link/Activity) per port - Optional • Wire-Speed Reception and Transmission • Integrated Address Look-Up Engine • Automatic Address Learning
STANDARDS COMPLIANCE:	<ul style="list-style-type: none"> • IEEE 802.3ab 1000Base-T • IEEE 802.3u 100BASE-TX • IEEE 802.3x Flow Control • IEEE 802.1 Audio Video Bridging (AVB) and Time Sensitive Networking (TSN)
POWER:	<ul style="list-style-type: none"> • Voltage Input: 9-32Vdc Nominal • Power Consumption: 5W Typical • Chassis grounding



SPECIFICATIONS

EMC/ENVIRONMENTAL:	Designed to Meet: <ul style="list-style-type: none"> MIL-STD-461E MILSTD-810F/G *When installed in an appropriate chassis
PHYSICAL:	<ul style="list-style-type: none"> Dimensions: 70mm (L) x 40mm(W) Dimensions: 2.75"(L) x 1.57"(W)
INSTALLATION:	<ul style="list-style-type: none"> 4 x mounting holes for board to board mounting
COOLING:	<ul style="list-style-type: none"> No Moving Parts. Passive Cooling Optional integrated cooling plate (see ordering information)
OPERATING TEMP:	<ul style="list-style-type: none"> -40°C to +85°C (-40°F to +185°F) - Cold Start-Up
STORAGE TEMP:	<ul style="list-style-type: none"> -45°C to +85°C (-49°F to +185°F)



ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1-718-000	Ultra Compact 1G Embedded Military Board Level Ethernet Switch, 8x10/100/1000Base-T
1-718-001	Ultra Compact 1G Embedded Military Board Level Ethernet Switch, 8x10/100/1000Base-T, with Cooling Plate
1-718EV-000	Evaluation board for MILTECH718
1-718EV-001	Evaluation board MILTECH718 with conformal coating
1-CP718-000	Cooling Plate Kit for MILTECH-718