MILDEF

MilDef Ethernet Switches

The backbone of tactical communications

Purpose-made for harsh environments, these rugged Ethernet switches act as the central nervous system for tactical communications, supporting both tactical edge and portable or unmanaged systems. They deliver MIL-STD compliance, flexible Layer 2/3 configurations, high performance, and strong port flexibility.

The portfolio includes Cisco- and Microchip-based platforms, ranging from fiber core switches to ultra-compact 4-port copper units. Standardized 19”/2 form factors, form-fit-function continuity across generations, and options for custom, mission-optimized designs.

MIL-STD 810 · MIL-STD 461 · MIL-STD 1275 · IP67 CERTIFIED · IP65 CERTIFIED

TEMPEST · DEF STAN 00-82 · 5 years warranty · RTCA



19”/2 Half rack

- Ethernet Switches for tactical edge
- 19”/2 form factor with form fit & function over multiple generations
- Long-term roadmap



Customer form factor

- Ethernet Switches for tactical edge
- Project driven form factor



Small form factor

- Ethernet Switches for portable or unmanaged systems
- Project driven form factor
- SWaP-C optimized

WE ARMOR IT.™



ESW1100

Unmanaged Layer 2 Switch based on Microchip SparX-III switching platform

- Typical Boot up time <10 seconds
- Up to 20 Gbps total switching capacity
- Up to 10 ports (10 x 1G)
- PoE, PoE+



ESW2100

Fully managed Layer 3 Switch based on Cisco ESS3300 switching platform

- Typical Boot up time 2-3 minutes
- Up to 44 Gbps total switching capacity
- Up to 26 ports (2 x 10G + 24 x 1G)
- PoE, PoE+
- Time Synchronization: NTP, PTP (1G ports only)



ESW4100

Fully managed Layer 3 Switch based on Microchip SparX-5i switching platform

- Typical Boot up time <20 seconds
- Up to 200 Gbps total switching capacity
- Up to 64 ports (configurable 1G-40G)
- PoE, PoE+
- Time Synchronization: NTP, PTP, TSN



ESW6100

Fully managed Layer 3 Switch based on Cisco ESS9300 switching platform

- Typical Boot up time 3-5 minutes
- Up to 200 Gbps total switching capacity
- Up to 10 ports (10 x 10G)
- Time Synchronization: NTP

Applications

Switches form the local network within a single tactical asset and perform a critical role in interconnecting onboard subsystems, such as the mission computer, weapon systems, thermal imaging devices, radar sensors, and crew intercom systems.

Example of peripherals

- **Port Replicators and Serial Device Servers:** Acts as bridges between serial interfaces and the ethernet network by converting serial data into standard IP traffic
- **Time Servers:** Deliver highly accurate and reliable time synchronization to any network size using standard time protocols
- **USB Matrixes:** Act as flexible switches that instantly route multiple USB inputs to various USB outputs at the same time

Environmental

- MIL-STD-810
- MIL-STD-461
- MIL-STD-1275
- IP65

Optional

- RTCA
- TEMPEST
- IP67
- N(GVA) Compliant

Additional options available on request

For more information visit **mildef.com**