

SPIDER SERIES

Harsh Environment
Military Ethernet Switches

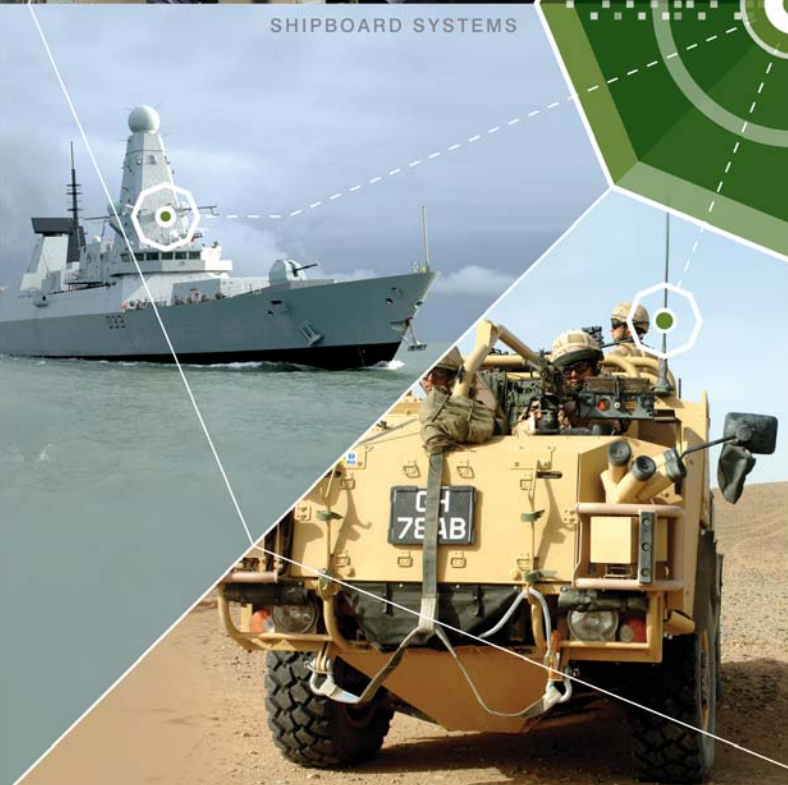


AVIONIC AND
SHIPBOARD SYSTEMS



RUGGED
NETWORKS

BATTLEFIELD
COMMUNICATION C4ISR



MOBILE
COMMUNICATIONS

SPIDER SERIES



To meet ever increasing requirements for higher speeds and Ethernet communication, Amphenol offers a range of managed and unmanaged Ethernet switches from 10 Megabit to 10 Gigabit.

Our range of Switches can withstand a variety of extreme conditions, whatever the situation – high temperatures, extreme shocks and vibrations, dust particles or even liquid immersion – there is a solution available. The switch electronics are sealed within a waterproof IP68 metallic enclosure. A conductive plating is suitable for most demanding EMI-RFI environments. RoHS compliant finishes are available. The I/O interface includes redundant power inputs as well as waterproof rugged connectors such as MIL-DTL-38999 (Series III).



Portable IP68 Ruggedised Switches developed for mobile portable military and harsh environment applications. The unit has been specially hardened to improve ingress, impact, and shock/vibration protection, as well as eliminate all moving parts through passive cooling, and interface through sealed circular connectors.

Key Features

- Rugged Metal Packaging
- Sealed GVA (General Vehicle Architecture) Interface Available
- MIL-DTL-38999 (Series III) connectors for both power and Ethernet Ports
- IP65/IP68 rated when mated and unmated
- Power filtering and protection
- Full-Duplex operation with flow control
- Auto-detecting, auto-cross over and auto-polarity
- Broadcast storm protection
- Conformance to MIL-STD-461

Typical Military Applications

- Battlefield Communication C4ISR
- Rugged Networks
- Mobile Communications
- Avionic and Shipboard Systems

Benefits

- Specifically Designed for Harsh environments
- Bespoke Modular design
- Tested to IEEE Ethernet Standards
- Hybrid – Electrical and Fibre port options
- Total switch and interconnect availability
- Experience in Ethernet Switch development, manufacture and supply

Typical Environmental Specifications

Safety	UL 60950-1, CAN/CSA-C22.2 No.60950
EMI emissions	U.S.A.: FCC Part 15 CISPR 22 U.E. EN55011, EN61000-6-4; EN55022 Class A, EN61000-3-2/3, EN55024, IEC61000-4-2/3/4/5/6/8, EN61000-6-2
Shocks	MIL-STD-810F
Vibrations	RTCA/DO-160C Sinusoidal vibrations
Altitude	MIL-STD-810F : 50,000 ft – 15,000 m
Temperature	Operating -40°C to +70°C Storage -40°C to +85°C
Power Filtering and Protection	MIL-STD-461E CE102 MIL-STD-704A 600V Spike suppression MIL-STD-1275A Spikes: +/- 250v for 100µs

Amphenol[®]

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