SMS-652 Rugged Ethernet SwitchBox

16-port Managed Gigabit Ethernet Switch

SWaP-C Optimized Rugged Network Switch

- Extremely small footprint and <5lb
- 15 Watts typical power

16-port Gigabit Ethernet Switch

- Non-blocking architecture supports tri-speed operation (10/100/1000Mbps) with auto-negotiation and auto-MDIX
- Full support for IPv4 and IPv6 networks
- Port, MAC, and protocol-based VLANs
- Spanning Tree support (RSTP, MSTP)
- Multicast support (IGMP/MLD snooping)
- Quality of Service (QoS)
- Support for jumbo frames up to 9KB
- Link aggregation, Port mirroring
- Static routing is also supported for IP routing to attached WAN/radio ports
- Energy Efficient Ethernet (EEE) per 802.3az with built-in cable diagnostics
- Hardware support for IEEE-1588v2 and Precision Time Protocol (PTP)
- Powerful in-band (HTTP/Telnet/SNMP) and out-of-band (RS-232) switch configuration and management

Designed for Rugged Military Applications and Environments

- Natural convection design supports extended operation from -40 to +75°C operation
- 24/28V DC power compliant to MIL-STD-1275 for ground applications, MIL-STD-704 for airborne applications, and Def Stan 61-5 for UK applications
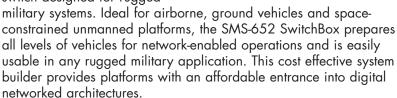
The SMS-652 Rugged Ethernet SwitchBox is a powerful gigabit network switch designed for rugged military systems. Ideal for airborne, ground vehicles and space-constrained unmanned platforms, the SMS-652 SwitchBox prepares all levels of vehicles for network-enabled operations and is easily usable in any rugged military application. This cost effective system builder provides platforms with an affordable entrance into digital networked architectures.

Supporting a powerful set of networking features, the power-efficient switching fabric provides non-blocking wire-speed gigabit performance for 16 ports of 10Mbps, 100Mbps or 1000Mbps Ethernet connections.

The SMS-652 complements a wide range of Curtiss-Wright Defense Solutions Ethernet switching and routing products, including a complete line of board-level switches and routers in VME, VPX, and mezzanine PMC/XMC form factors, as well as fully integrated SwitchBox units designed for immediate deployment in the most rugged environments.

Learn More
Sales Info: cwcdefense.com/sales
Sales Email: ds@curtisswright.com

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Table 1: Specifications

Feature	Description
Power	◆ +28VDC nominal, per MIL-STD-704/1275 ◆ +24VDC nominal, per UK Def Stan 61-5 ◆ Max: 20 watts (all ports, 100% traffic) ◆ Typical: 15 watts
Size	7.75" x 9.2" x 2.5" (W x D x H)
Weight	< 5.0 lbs
Environmental	-40 to +75°C natural convection
Shock	40g peak
Vibration	10g peak sinusoidal, 0.1g^2/Hz random, over 15Hz to 2KHz

Table 2: Ordering Information

Part Number	Description
SMS-652-20016 16-Port Rugged Ethernet SwitchBox	◆ 16 ports 10/100/1000Base-T on two MIL-STD-38999 connectors ◆ +28VDC power per MIL-STD-704
SMS-652-21016 16-Port Rugged Ethernet SwitchBox	◆ 16 ports 10/100/1000Base-T on two MIL-STD-38999 connectors ◆ +28VDC power per MIL-STD-1275
SMS-652-22016 16-Port Rugged Ethernet SwitchBox	◆ 16 ports 10/100/1000Base-T on two MIL-STD-38999 connectors ◆ +28VDC power per UK Def Stan 61-5

SMS-652 Rugged Ethernet SwitchBox Block Diagram