

Rugged heavy duty 8-port Ethernet managed switch for automotive applications



C-Key" for quick configuration
Save & Restore

- Heavy duty aluminum enclosure, IP66 seal rating, shockproof & vibration proof
- 8-port Ethernet managed switch (layer 2), store-and-forward technology
- Auto sensing 10/100BaseTX, duplex and MDIX
- Web based configuration, SNMP administration, configurable alarm contact
- Redundant isolated power supply input (+9VDC to +75VDC)
- Rugged M12 connectors for Ethernet & power supplies
- Extended temperature range from -40°C to +70°C (-40°F to 158°F)

MSW-ABOARD



RoHS

5-YEAR WARRANTY

MSW-ABOARD is a rugged 10/100 Base-TX managed Ethernet Switch designed for heavy duty applications in harsh environment.

The enclosure is made of corrosion resistant aluminum with protection against dust and water projections.

The device uses M12 circular connectors for Ethernet ports and power supplies to insure robust and reliable connection in environments subject to shocks and vibrations.

MSW-ABOARD is a managed layer 2 switch that offers many switch technology advancements, including auto MDI/MDIX crossover for easy plug and play application; device can be managed using a web browser or SNMP; The "C-Key" allows for quick and easy on-site replacement of the MSW-ABOARD unit, eliminating the need to reconfigure the replacement part or to use any other equipment.

MSW-ABOARD fulfills the most severe requirements in terms of operating environment: operating temperature from -40°C to +70°C (-40°F to 158°F), shockproof and vibration proof according to MIL-STD-810F standard, IP66 seal rating.



TECHNICAL CHARACTERISTICS

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|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet interface | 8-port 10/100 Base TX Fast Ethernet interface, RJ45 connector, auto MDI/MDIX crossover, IEEE 802.3x full-duplex and half-duplex auto-adaptive |
| Standards | IEEE 802.3 (10Base-T), IEEE 802.3u (100Base-TX), IEEE 802.1p (QoS class of service), IEEE 802.3x (Flow Control and Back-pressure), IEEE 802.D (Spanning Tree) , IEEE 802.1Q (VLAN support) |
| Technology | Store and Forward technology with 3.2 Gbps wire-speed non-blocking switch fabric High performance lookup engine, 2048 MAC address entries with automatic learning and aging 1 Mbits shared packet buffer (64 bits organization) |
| Management | SNMP v2c, web browser, ACKSYS NDM (Networking Device Manager). ACKSYS unique “C-Key” allows for quick and easy on-site replacement of the MSW-ABOARD unit, eliminating the need to reconfigure the replacement part or to use any other equipment |
| SNMP | Support for SNMP traps : Cold start, warm start, port event, power event |
| Firmware upgrade | TFTP, ACKSYS NDM, web browser |
| Quality of service | 802.1p priority Queues (QoS), four traffic classes support, typically supporting prioritized packet streams for management, voice, video and data |
| VLAN | 802.1Q VLAN support to enhance security/network performance (up to 64) |
| DHCP | Supports DHCP client, DHCP agent with option 82, DHCP server, MAC binding function |
| IGMP snooping | Supports IGMP snooping and IGMP query |
| Port Mirroring | This function allows the traffic on one port to be duplicated and sent to a designated mirror port. Port mirroring can be used to monitor Ethernet traffic on the designated source port using the assigned mirror port |
| Network redundancy | ACKSYS turbo ring (5 ms network recovery time), RSTP |
| Port statistics | Full support of RMON statistics, history, alarms, and event groups, RMON allows for very sophisticated data collection, analysis and detection of traffic patterns |
| Signaling | LED display for Ethernet link / activity and 10/100 status for each port, power supplies, diagnostic and C-Key |
| Alarms | Relay output warning: power failure, LAN connection failure, Watchdog. 1 FORM B solid state relay, 60V 0.15A, contacts on power supply M12 connector |
| Power supply | Isolated redundant power input, from +9 to +75VDC, 10 Watts maximum power consumption Reverse polarity protected, 500 V isolation |
| Mechanical | Rugged aluminum housing with anti-corrosion coating, IP 66 seal rating for dust and water protection L: 80 mm x W: 175 mm x H: 57 mm (3.15 x 6.88 x 2.24 inches), weight 650g (22.9 oz) |
| Connectors | M12 circular connectors for Ethernet and power supplies to ensure robust connections and reliable operation in environments subject to vibrations & shocks |
| Environment | Operating temperature: -40°C to +70°C (-40°F to 158°F), storage: -65°C to +100°C (-85°F to 212°F) Humidity: 0% to 99% (non-condensing) |
| Approvals | MIL-STD-810F method 514.5 & 516.5 (shocks & vibrations) EN 301489-17 & EN 61000-6-2 (CEM), IP66 seal rating, UTAC E2 (2004/104), EN 50155 CE & FCC Class A |

References to order

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| MSW-ABOARD | 8-Port Ethernet 10/100Base TX managed switch, +9VDC to +75VDC dual input power supply with rugged M12 circular connectors for heavy duty automotive applications |
| C-Key | Save / Restore configuration key for the MSW-ABOARD |

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