AIRES 16x GbE RUGGED SWITCH

- Rugged, IP67 sealed system
- Small form factor (1.75" H x 6.5" D x 8.5" W) and low power
- 16x GbE ports with individual connectors
- +28VDC power input for vehicle or aircraft
- -40°C to +71°C wide temperature range
AIRES 16x GbE RUGGED SWITCH

The AIRES product family extends Kontron’s existing Ethernet switch portfolio and features a fully managed layer 2/3 Gigabit Ethernet switch offering IPv4/IPv6 routing and full management capabilities. It supports a powerful set of CLI, Telnet, Web and SNMP management interfaces to configure the entire set of protocols and parameters including Layer 2 and Layer 3 (IPv4/IPv6) protocols, Multicasting, QoS and Security. The AIRES is uniquely designed and tested to survive in harsh and extreme environments found in military, avionics, commercial avionics, mining, smart grid, homeland security, transportation (rail), and oil & gas markets.

UNIQUE VERSATILITY

A combination of port count, connector type, and power supply options ensure the highest connectivity and operational capability. The AIRES product family is available in many different front I/O versions and power supply options. The AIRES1600PDCOT1STD provides 16x GbE direct port connections using small and rugged connector solutions.

TECHNICAL INFORMATION

| CONTROLLER AND SWITCH | Broadcom BCM56333 or BCM56334 Ethernet switch  
| PowerPC® 405EX, 32-bit, RISC processor core operating up to 600 MHz  
| NXP LPC2368 32-bit microcontroller  
| 512MB DDR2 RAM 200 MHz  
| 1GB NAND Flash for file storage |

| SOFTWARE MANAGEMENT | Management via SNMP, Telnet, CLI  
| - In-band  
| - Out-of-band via Ethernet or RS232  
| Reliable software, field upgradable, Dual boot images with rollover capabilities, Advanced management monitoring features |

| SOFTWARE SWITCHING & ROUTING | Ethernet Bridging:  
| - Static and dynamic link aggregation, Classic, rapid and multiple spanning tree algorithms, Quality Of Service, Full Duplex operation and flow control, Layer 2 multicast services, VLAN support, Access Control Lists  
| - IPv4 Forwarding, ARP, ICMP, static routing, OSPF and RIP routing, Virtual router redundancy protocol (VRRP), ECMP Equal Cost Multipath routing  
| - IP Multicasting, IGMPv2, IGMP, PIM-DM/PM, DVMRP, MLD v1/v2, IGMP and MLD snooping Services:  
| - SNTP client, DHCP server, Event Management, POST, SNMP, Support for multiple configurations, TFTP server, Power on and diagnostic tests |

| POWER INPUT | Integrated +28VDC input (+18VDC to +36VDC) power supply and EMI filtering supports MIL-STD-704, MIL-STD-461 and DO160, Optional External wide range AC power supply available for development |

| POWER CONSUMPTION | Less than 25W |

| OPERATING TEMPERATURE | -40°C to +71°C |

| SHOCK | 40g, 11ms sawtooth |

| VIBRATION | 5 Hz to 2000 Hz, Random, 1hr each axis, B21 GRMS Power Spectrum Density |


| HUMIDITY | 95% non-condensing |

| SIZE | 1.75” (44.5mm) H x 6.5” (165mm) D x 8.5” (216mm) W |

| WEIGHT | 3.9lbs (1.7kg) |

| CONNECTOR | Military Circular locking connector IP67 rated. LAN 1 - LAN 16 single connector per GbE port with activity LED |

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