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The Wayback Machine - https://web.archive.org/web/20080509144533/http://www.interfaceconcept.com/cometh3000a_html.htm

5, 8, 12 port-embedded Ethernet Switch

Rugged Switch - 3U/6U CompactPCI or VME or Standalone

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cPCI 3U



standalone 3U



VME 3U



VME 6U

info doc (57Ko)

RoHS 2002 / 95 / EC

Description

ComEth 3000a is a highly integrated 10/100 Fast Ethernet switch fully compliant with the applicable sections of IEEE802.3. It provides 5 ports for the 3U model and 8 or 12 ports for the 6U model.

Auto-crossover, auto-polarity, auto-negotiation and automatic MAC address management make ComEth 3000a a true Plug&Play layer2 switch.

The switch can be configured by a local EPROM or with a light management software running on a remote computer. In addition to the configuration, this application provides a smart network monitoring (several statistics, counter per port, VCT).

It is designed to work in any cable environment. The auto-sensing 10/100TX ports on RJ45 allows to connect UTP or STP cable. For a 10BT link, the maximum network length is 185m (CAT3/4 cable) and 150m for a 100TX link (CAT5 cable). The 100Base-FX Ethernet port on MTRJ connectors uses a 1300nm transceiver for a multimode fiber and allows to connect a distant node up to 2000m. One or two fiber channels can be implemented.

ComEth3000a functionalities are implemented on a 3U (100*160mm) or 6U (232*160mm) form factor board. These existing products are single boards to be integrated in racks. They are power supplied though the cPCI and VME buses.

Interface Concept Ethernet Switchs provide a smooth migration path as your network evolves, with support of conventional Ethernet and Fast Ethernet.

ComEth 3000a

5, 8 or 12 ports 10/100TX Ethernet switch with optional fiber interfaces

High speed non-blocking and store-and-forward switching

Auto-sensing Fast Ethernet ports for speed and duplex mode selection

2 048 MAC address entries with automatic learning and aging usable with some static MAC addresses

Prevents packet loss with back pressure or IEEE802.3x flow control

QoS with four traffic classes. Classification by port, IEEE802.1p, IPV4 (TOS)

IEEE 802.1Q VLANs processing

On-line Virtual Cable Tester (Marvell VCT) with advanced cable diagnostic capabilities

Automatic MDI/MDIX crossover

LED display for easy network monitoring : activity & link

Standalone version with External Power Supply 10 to 36VDC with on-board protections

High reliability due to a high CMOS chip integration

General info

Standard Conformance

Media access controllers fully compliant with the applicable sections of IEEE802.3 (Ethernet), IEEE802.3u (Fast Ethernet), IEEE 802.3x (full-duplex flow control)

Emissions : EN55022 ClassA
Immunity : CEI 50082-1(EN61000-4-2,-3,-4,-5,-6,-11)
Security : EN60950

Environmental Standard grade

Refer to the ComETh3000a datasheet on our website (www.interfaceconcept.com) for environmental standard grade details

Environmental Extended grade with conformal coating

Refer to the ComETh3000a datasheet on our website (www.interfaceconcept.com) for environmental extended grade details.
Note that some ComEth3000a models support temperatures from -40°C to 85°C.

Power Supply

VME 3U model through P1 connector 5VDC
cPCI 3U model through J1 connector 3.3VDC
VME 6U model through P1 connector 5VDC
cPCI 6U model through J1 connector 3.3VDC
Standalone through a jack connector 10 to 36VDC

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Ordering information

Part number	Model	Features	Grade
VME - 3U - Front connections		**M = LightManaged switch FB = Front Board RB= Rear Board**	
573-010-740	ComEth 3010a	5 ports_LM : 5*10/100TX ports (FB) - 4TE - No EMI protections	standard
573-010-760	ComEth 3010a	5 ports_LM : 5*10/100TX ports (FB) - 4TE - EMI protections	extended
573-011-740	ComEth 3011a	5 ports_LM : 4*10/100TX ports (FB) + 1*100FX (FB) - 4TE - No EMI protections	standard
573-011-760	ComEth 3011a	5 ports_LM : 4*10/100TX ports (FB) + 1*100FX (FB) - 4TE - EMI protections	extended
cPCI - 3U - Front connections		**LM = LightManaged switch FB = Front Board RB = Rear Board**	
573-012-740	ComEth 3012a	5 ports_LM : 5*10/100TX ports (FB) - 4TE - No EMI protections	standard
573-012-760	ComEth 3012a	5 ports_LM : 5*10/100TX ports (FB) - 4TE - EMI protections	extended
573-013-740	ComEth 3013a	5 ports_LM : 4*10/100TX ports (FB) + 1*100FX (FB) - 4TE - No EMI protections	standard
573-013-760	ComEth 3013a	5 ports_LM : 4*10/100TX ports (FB) + 1*100FX (FB) - 4TE - EMI protections	extended
Std-alone - 3U - Front connections		**LM = LightManaged switch FB = Front Board RB = Rear Board**	
573-016-740	ComEth 3016a	5 ports_LM : 5*10/100TX ports (FB) - 4TE - No EMI protections	standard
573-016-760	ComEth 3016a	5 ports_LM : 5*10/100TX ports (FB) - 4TE - EMI protections	extended

573-017-740	ComEth 3017a	5 ports_LM : 4*10/100TX ports (FB) + 1*100FX (FB) - 4TE - No EMI protections	standard
573-017-760	ComEth 3017a	5 ports_LM : 4*10/100TX ports (FB) + 1*100FX (FB) - 4TE - EMI protections	extended
VME - 6U - Front connections		**LM = LightManaged switch FB = Front Board RB = Rear Board**	
573-020-740	ComEth 3020a	8 ports_LM : 8*10/100TX (FB) - 4TE - No EMI protections	standard
573-020-760	ComEth 3020a	8 ports_LM : 8*10/100TX (FB) - 4TE - EMI protections	extended
573-021-740	ComEth 3021a	12 ports_LM : 12*10/100TX (FB) - 4TE - No EMI protections	standard
573-021-760	ComEth 3021a	12 ports_LM : 12*10/100TX (FB) - 4TE - EMI protections	extended
573-022-740	ComEth 3022a	12 ports_LM : 10*10/100TX(FB) + 2*100FX (FB) - 4TE - No EMI protections	standard
573-022-760	ComEth 3022a	12 ports_LM : 10*10/100TX(FB) + 2*100FX (FB) - 4TE - EMI protections	extended
cPCI - 6U - Front connections		**LM = LightManaged switch FB = Front Board RB = Rear Board**	
573-025-740	ComEth 3025a	8 ports_LM : 8*10/100TX (FB) - 4TE - No EMI protections	standard
573-025-760	ComEth 3025a	8 ports_LM : 8*10/100TX (FB) - 4TE - EMI protections	extended
573-026-740	ComEth 3026a	12 ports_LM : 12*10/100TX (FB) - 4TE - No EMI protections	standard
573-026-760	ComEth 3026a	12 ports_LM : 12*10/100TX (FB) - 4TE - EMI protections	extended
573-027-740	ComEth 3027a	12 ports_LM : 10*10/100TX(FB) + 2*100FX (FB) - 4TE - No EMI protections	standard
573-027-760	ComEth 3027a	12 ports_LM : 10*10/100TX(FB) + 2*100FX (FB) - 4TE - EMI protections	extended
VME - 6U - Rear connections (P0)		**LM = LightManaged switch FB = Front Board RB = Rear Board**	
573-030-740	ComEth 3030a	8 ports_LM : 8*10/100TX (RB) - 4TE	standard
573-030-760	ComEth 3030a	573-030-740 in extended grade	extended
573-031-740	ComEth 3031a	10 ports_LM : 8*10/100TX (RB) + 2*100FX (FB) - 4TE	standard
573-031-760	ComEth 3031a	573-031-740 in extended grade	extended
cPCI - 6U - Rear connections (J3)		**LM = LightManaged switch FB = Front Board RB = Rear Board**	
573-035-740	ComEth 3035a	8 ports_LM : 8*10/100TX (RB) - 4TE	standard
573-035-760	ComEth 3035a	573-035-740 in extended grade	extended
573-036-740	ComEth 3036a	10 ports_LM : 8*10/100TX (RB) + 2*100FX (FB) - 4TE	standard
573-036-760	ComEth 3036a	573-036-740 in extended grade	extended
Rear Tansition Modules for ComEth3000a_cPCI & VME			
900-250-740	RTM03_100_8	8 ports : 8*RJ45(10/100Mbs) - 4TE - No EMI protections (P0/J3)	standard
900-252-760	RTM03_100_8	8 ports : 8*RJ45(10/100Mbs) - 4TE - EMI protections (P0/J3)	extended

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