5, 8, 12 port-embedded Ethernet Switch

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

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

Low power dissipation less than 5W for eight 100TX ports

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

High reliability due to a high CMOS chip integration

cPCI 3U

Standalone

VME 3U

VME 6U

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.

ComEth 3000a 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

10/100Mbs embedded Ethernet Switch

Main Features

Rear Transition module routes ports to the rear panel
Please refer to ordering information.

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

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 Class A
Immunity
CEI 50082-1 (EN61000-4-2, -3, -4, -5, -6, -11)
Security
EN60950

Rear Transition Module:

Ref. RTM03

Environnement Specifications:

Please refear to information below.

Ordering Information:

Please consult the **ComEth 3000a datasheet** at **www.interfaceconcept.com** (listing all products reference and envirronment grades availability).

This document supersedes any earlier documentation relating to the products referred to herein. The information contained in this document is current at the date of publication. It may subsequently be updated or withdrawn without notice.

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