

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 clas-
ses. Classification by port,
IEEE802.1p, IPV4 (TOS)*

*IEEE 802.1Q VLANs proces-
sing*

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

*Automatic MDI/MDIX crosso-
ver*

*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 protec-
tions*

*High reliability due to a high
CMOS chip integration*



cPCI 3U



Standalone



VME 3U



VME 6U



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 through the cPCI and VME buses.

Interface Concept Ethernet Switches 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 refer to information below.

Ordering Information:

Please consult the **ComEth 3000a datasheet** at www.interfaceconcept.com (listing all products reference and environment 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.

