

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

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

QoS with four traffic classes

Port Based VLANs

Multicast rate limiting

Slower and Faster ports can be used through the same network

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



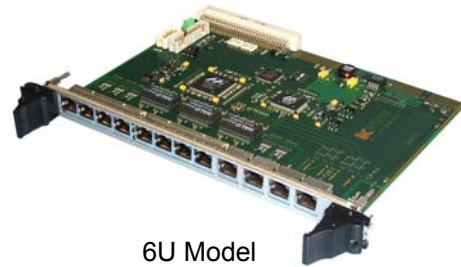
cPCI 3U



Standalone



VME 3U



6U Model

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 from a PC by a switch configuration utility.

It is designed to work in all cable environment. The auto-sensing 10/100TX ports on RJ45 allows to connect UTP or STP cable. For a 10BT link the maximum network is 185m long (CAT3/4 cable) and 150m long 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.

This product functionalities are implemented on a 3U (100*160mm) or 6U (232*160mm) form factor board. ComEth 3000a products are supplied as single boards to be integrated in a rack. They take their power supplies on the cPCI and VME buses.

Switch provides a smooth migration path as your network evolves, with support of conventional Ethernet and Fast Ethernet.

COMETH 3000a

General Information

Standard Conformance

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

Environmental Standard grade

Operating Temperature	0°C to 55°C
Recommended Airflow	0.6m/s
Humidity	5% to 90% HR non condensing
Storage Temperature	-45°C to 85°C
Sinusoidal Vibration	2G [20..2000]Hz
Random Vibration	0.002g ² /Hz [10..2000]Hz
Shock 1/2 Sin 11ms	20G

Environmental Extended grade with conformal coating

Operating Temperature	-20°C to 65°C
Recommended Airflow	0.8m/s
Humidity	5% to 95% HR non condensing
Storage Temperature	-45°C to 85°C
Sinusoidal Vibration	2G [20..2000]Hz
Random Vibration	0.002g ² /Hz [10..2000]Hz
Shock 1/2 Sin 11ms	20G

Power Supply

VME 3U model through P1 connector 5VDC / 600mA (5 10/100TX ports)
cPCI 3U model through J1 connector 5VDC / 1250mA or 3.3VDC / 950mA (5 10/100TX ports)
VME 6U model through P1 connector 5VDC / 600mA (12 10/100TX ports)
cPCI 6U model through J1 connector 5VDC / 1250mA or 3.3VDC / 1900mA (12 10/100TX ports)

Ordering Information

Please consult the **ComEth3000a datasheet** at www.interfaceconcept.com (listing all product references 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.

