

IC-NAS-VMEa

Modular Network Attached Storage (NAS) solution

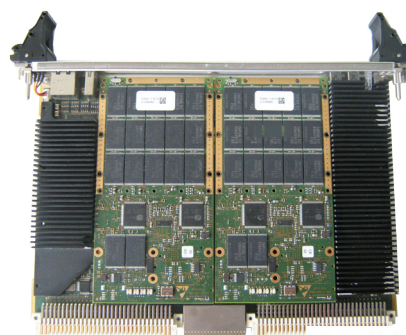
The **IC-NAS-VMEa** is the cornerstone of the new IC product family for data storage.

Designed for applications claiming for high performance storage solutions, the **IC-NAS-VMEa** allows to share critical datas between heterogeneous clients of an IP network on its Solid State drives.

The **IC-NAS-VMEa** implements an Ethernet switch which enlarges the communication capabilities usually existing on such a Server.

Based on our well proven products (**IC-De6-VMeB** and **IC-SSD-XMCa**), the **IC-NAS-VMEa** implements a NAS application (called **NASware**) providing EXT3 on RAID0 devices (other config under consideration).

The main features and protocols supported by the **NASware** are described below.



RoHS
2002 / 95 / EC

Description

Board configuration :

- ▶ Identify the board on the network
- ▶ Set system time manually
- ▶ Get system time from NTP server
- ▶ Import and export configuration by files
- ▶ Restore default configuration

Network configuration :

- ▶ Set a default gateway
- ▶ Set a static IP address per port
- ▶ Get an IP address with DHCP per port
- ▶ Set a network interface down/up

Account configuration :

- ▶ Create/delete groups and users accounts
- ▶ Grant/revoke administrator and operator privileges

Share configuration :

- ▶ Create/delete shared directories
- ▶ Grant/revoke SMB privileges per user and group
- ▶ Grant/revoke NFS privileges per IP address and group

Board status :

- ▶ Board description, PBIT results, module versions, temperature, system time, storage status...

Management access :

- ▶ Local access to the CLI with a serial console
- ▶ Remote plain text access to the CLI with TELNET
- ▶ Remote encrypted access to the CLI with SSH
- ▶ Remote access via SNMPv2 / SNMPv3 (coming next)

Storage access :

- ▶ Plain text access to the storage data with TFTP, FTP, NFSv2/v3 and/or SMB/CIFS protocols
- ▶ Encrypted access to the storage data with SFTP protocol

Service maintenance :

- ▶ Enable/disable all protocols singly
- ▶ Stop/start all servers singly

Main features

Processor Unit

- ▶ One MPC8640 Dual Core running at 1GHz
- ▶ 2GB of DDR2-ECC (1Gbyte per Core)

Storage subsystem

- One or two SSD XMC(s) offering :
 - ▶ 4 (1*XCM) or 8 (2*XMC) drives
 - ▶ From 64GB up to 2*512GB of SLC NAND.

Communication subsystem

- ▶ One direct GigaEthernet port (rear P0)
- ▶ Four switched GigaEthernet ports (rear P0 *)
- ▶ One console port (front or rear)

(*) option : one of them can be available on front panel (RJ45)

The direct port and one of the switched port allows the **IC-NAS-VMEa** to comply with VITA31.1.

The **IC-NAS-VMEa** is available in standard, rugged and conduction-cooled grades.

IC-NAS-VMEa

Modular Network Attached Storage (NAS) solution

On-board firmware

UBoot

Our basic firmware takes in charge initialization of the system. This on-board firmware, based on UBOOT, is an efficient set of software stored in a secured flash. It performs a comprehensive Power-on self tests (PBIT) with results available from the NASware.

NASware

The **NASware** includes most of the features/protocols required by advanced embedded applications and provides easy administration and simple configuration of the server (see above).

The **NASware** can be updated from the network allowing thus to benefit from new features. The configuration files can be imported and exported from the network.

Interface features

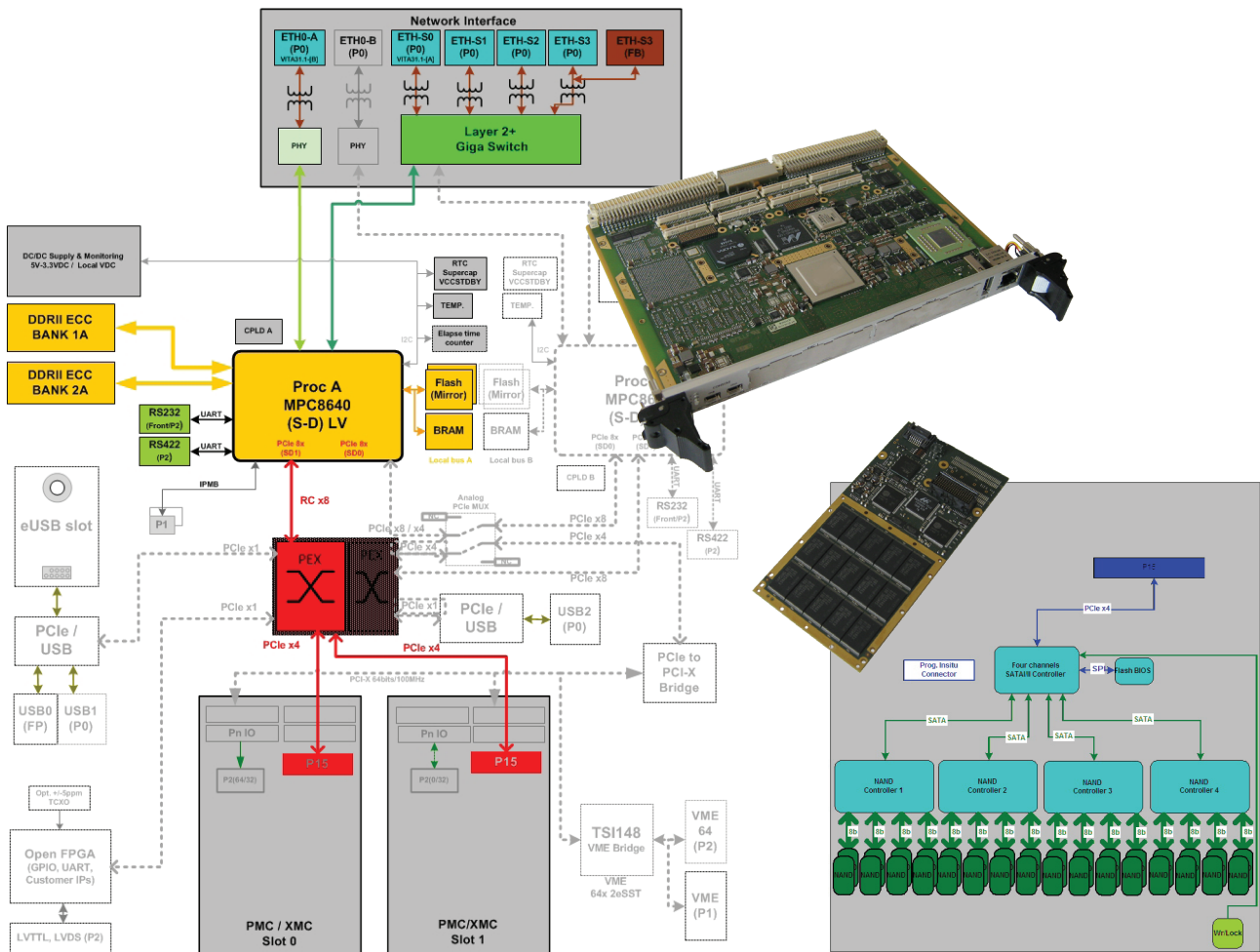
Front connectors :

- ▶ 1 * Giga Ethernet port (RJ45)
(exclusive with one of the P0 ports of the switch)
- ▶ 1 * RS232 port
- ▶ 1 * Write protect jumper per XMC

P0 connector

- ▶ 2 * GigaEthernet ports compliant with VITA 31.1
(1 * direct, 1 * switched)
- ▶ 3 * additional switched GigaEthernet ports
- ▶ 1 * RS232

Block Diagram



Environnement Specifications:

Please consult the IC-NAS-VMEa page at www.interfaceconcept.com. (coming next)

Ordering Information:

Please contact our sales department : tel. +33 (0)2 98 573 030 - email : info@interfaceconcept.com

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