

NXIO

One I/O Board for all Real-Time Ethernet Systems

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Description

Like for fieldbus systems, Ethernet based communication systems provides different solutions and have their specific technically approaches. Device manufacturers need to make themselves familiar with the new technology, evaluate pros and cons of each system and decide what can be used best for their application or product.

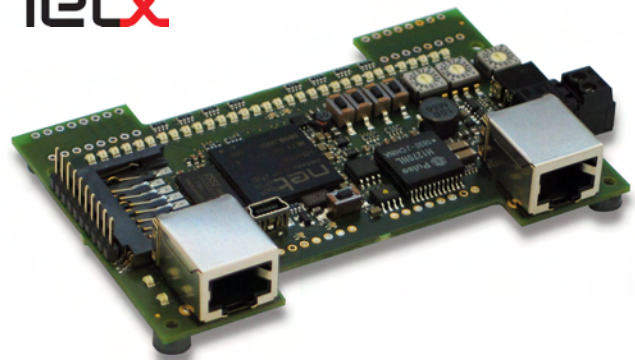
In some instances, the market makes the decision and the device manufacturer is forced to create test scenarios with multiple network nodes in a real-world system.

The slave devices used in this network should be easy to use, inexpensive and flexible like the NXIO board. The NXIO is a digital I/O board for all Ethernet based fieldbus system and utilizes networX on chip. A digital I/O board for all Ethernet systems configurable by loading a new Firmware from the provided MMC Card.

Highlights

- I/O Board for All Real Time Ethernet System
- Simple system selection By loading the Firmware again
- Ideal for Evaluating Different Ethernet Systems or Building Test Assemblies

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Technical Information

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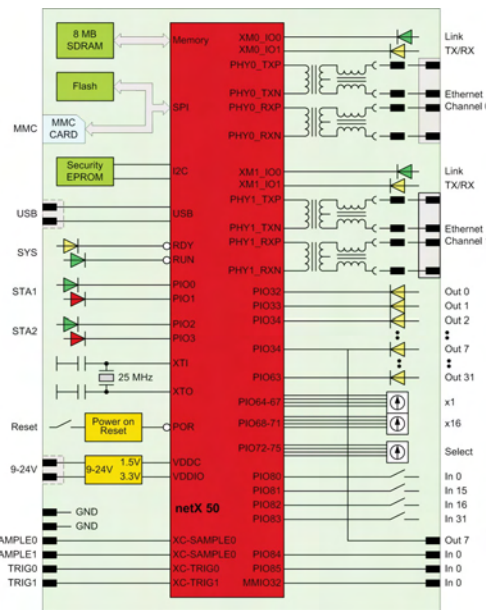
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Block Diagram



Protocol:

Distribución: **ER-SOFT, S.A.** Email: er@er-soft.com, Tel: +34 916 408 408

EtherCAT Adapter

I/O Data	4 Byte Input 4 Byte Output
Non-Cyclic Data	128 Byte Mailbox Out 128 Byte Mailbox In
Functions	Complex Slave CoE (CANopen over Ethernet) 3 FMMUs and 4 SYNC-Manager Distributed Clock

EtherNet/IP Server

I/O Data	4 Byte Input 4 Byte Output
Unscheduled Data	Max. 1400 Bytes per Telegram Max. 8 Connections
Server Services	Get_Attribute_Single Get_Attribute_All Set_Attribute_Single Set_Attribute_All

Open Modbus/TCP Server

I/O Data	4 Byte Input 4 Byte Output
Function Codes	1, 2, 3, 4, 5, 6, 15, 16
Message Modus	Server

I/O Data	4 Byte Input 4 Byte Output
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Functions	Integrated Hub PDO Mapping SDO Up-/Download SDO over ASND
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Poll Request/Response	Response Time 1µs
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Version	V2
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PROFINET IO Device

I/O Data	4 Byte Input 4 Byte Output
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Communication Type	PROFINET RT VLAN- and Priority-Tagging
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Functions	Cyclic Process Data DCP Context Management over CLRPC Target/Actual Configuration Comparison
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SERCOS III Device

I/O Data	4 Byte Input 4 Byte Output
Over P-0-1502 and P-0-1503	SVC or cyclically configurable

Functions	Real-Time Data Service Channel Ring or Line Topology Synchronization CON_CLK, DIV_CLK
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Technical Data

Parameter	Data
Inputs	4x keys / 2x dig. Input signals
Outputs	32x LED / cyclic trigger signal
Displays	SYS, STA1, STA2, Link, RX/TX
Switches	3x Rotary Switches 0 - F
Test Points	4x Synchronization Signals

Parameter	Data
Memory Interface	MMC Card
Diagnostic Interface	USB Device, Mini-B Plug
Ethernet Connection	2x Ethernet 100 BASE-TX, RJ45
Power Consumption	24 V / 150mA, MC 1,5/3-STF-3,81
Operating Temperature	0..50 °C
Dimensions (L x W x H)	100 x 65 x 20 mm

Product Overview

Distribución: **ER-SOFT, S.A.** Email: er@er-soft.com, Tel: +34 916 408 408

Distributors

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jus Specialists
fieldbus.com.au

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