

netX HMI Parts for Terminal Manufacturer



Attuned HMI Parts

- Base Board with Operating System
- Visualization Software
- Real-Time Ethernet
- Soft-PLC

Your Benefits

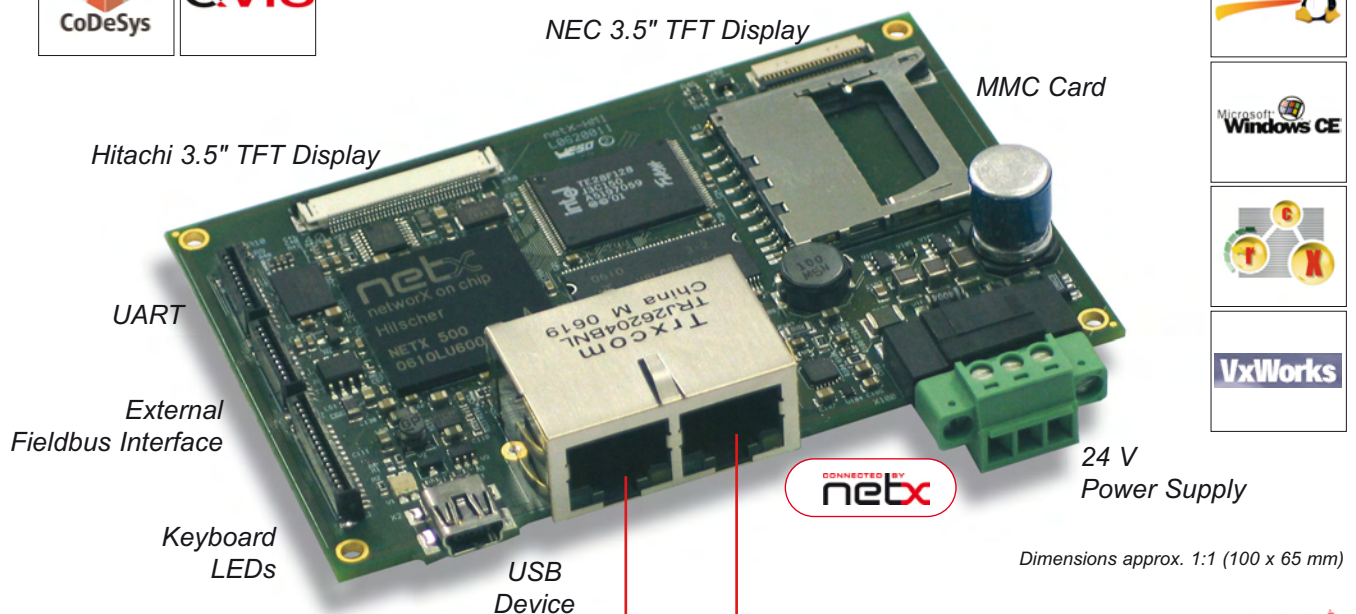
- Fast 'Time-to-Market'
- Reduction of 'Total-cost-of-Ownership'
- Little Development Costs
- No Risk of Own Development
- No Interface Problems
- 10 Years Guaranty of Supply
- Manufactured in Europe
- Everything from one Manufacturer

The 32 bit CPU ARM 926/200 MHz along with the integrated network and LCD controller make the netX chip an ideal platform for machine terminals for low cost applications.

Terminal manufacturers developing own machine terminal solutions have to take care about test procedures and test equipment and for the lifetime of the product there are maintenance expenses to think of.

The netX HMI evaluation board is a fast and cost effective alternative to start developing hardware. The board support package (BSP) includes the operating system, which is the base for extensions like Soft PLC and visualization. The functionality of the base board covers everything necessary from electronics to interfaces for future extensions. Based on netX, we guaranty ten years of supply for compatible products.

Besides our own fieldbus stacks and together with our partners like 3S and KW Software, we are able to provide software components for programmable controls and visualization tailored for the netX HMI evaluation board.



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netX HMI Part Real-Time-Ethernet

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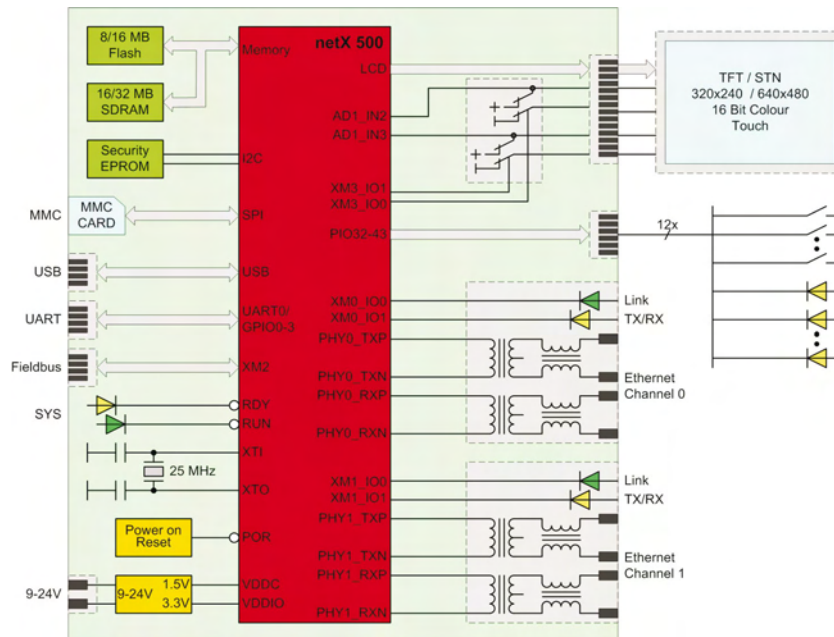
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Block Schematic



Protocols

EtherCAT	Slave
Cyclic Data	max. 128 Bytes
Non-Cyclic Data	SDO Master/Slave SDO Slave/Slave
Functions	PDO Mapping COE (CANopen over EtherCAT) EOE (Ethernet over EtherCAT)

EtherNet/IP	Adapter
IO Data	max. 3584 Bytes max. 504 Bytes per Connection Point
Unscheduled Data	max. 247 Bytes per Telegram max. 16 Connections

Modbus TCP/IP	Server
IO Modbus Server	max. 3584 Byte IO Data
Function Codes	1, 2, 3, 4, 5, 6, 7, 15, 16

Powerlink	Controlled Node
Version	V2
Poll Request/Response	Response Time 1µs
Functions	SDO Up-/Download SDO over ASND and UDP PDO Mapping

PROFINET IO	Device
Communication Type	PROFINET RT VLAN- and Priority-Tagging Cyclic and Non-cyclic
Functions	Process and Diagnostic Alarm DCP

SERCOS III	Slave
Functions	Real-Time Data Service Channel Phase Run-up Ring or Line Topology IP Channel

Technical Data

Parameter	Data
Processor	netX 500 with ARM 926EJ-S / 200 MHz
Memory	16-64 MB SDRAM / 8-32 MB Flash
Display	3,5" TFT Touch 320x240 Pixel
Keyboard / LEDs	12x PIO for LEDs or Push Buttons
Serial Interface	UART or 4x GPIO, 2x PIO
Fieldbus	External CAN / PROFIBUS Interface

Parameter	Data
Memory Interface	MMC
Diagnostic Interface	USB Device, Mini-B Plug
Ethernet Connection	2x Ethernet 100 BASE-TX, RJ45
Power Consumption	24 V / max 150 mA, MC 1,5/3-STF-3,81
Operating Temperature	-20..55 °C
Dimensions (L x W x H)	100 x 65 x 20 mm

Product Overview

Article description	Article number	Article
NXHMI-RE	1851.100	netX HMI Baseboard for Real-Time Ethernet

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