



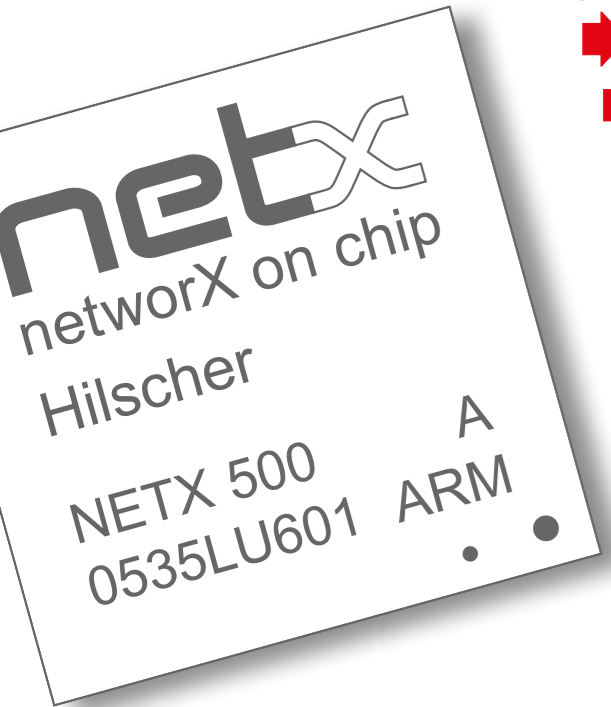
netX
networX on chip
Hilscher

netX

The future for your communication

www.hilscher.com

netX – networX on chip



- ▶ **The universal communications platform**
- ▶ **As slave or master for all Fieldbuses and Real-Time Ethernet systems**
- ▶ **Consistent, continuous interfaces across all systems**
- ▶ **Open technology for your own applications**
- ▶ **One stop shop for hardware and software**
- ▶ **Various performance classes for all use cases**
- ▶ **High flexibility when selecting the communications system**

The netX network controller family is the intelligent solution for implementing all proven Fieldbus and Real-Time Ethernet systems in a minimum of space. The diversity and flexibility of this controller enable you to implement any type of use case needed in factory automation, thereby opening the doors to all industrial automation markets.

Regardless of whether drive controls with high demands on synchronization and very low cycle times, traditional I/O systems for the field or complex controllers with visualization and communication, the different netX controllers available in various performance classes offer the appropriate platform for any case of application.

Independent of how the netX controllers are applied, they sustainably ensure your company's market position and in the long-term, assist you in staying on top of state-of-the-art industrial communication.



Your Benefits

- ✓ **Connection to all networks with only one controller**
- ✓ **One contact person – One stop**
- ✓ **Reduced development effort thanks to consistent interfaces for hardware and software across all systems**
- ✓ **Reduced product, storage and administration costs**
- ✓ **Space requirements of the interface is reduced to a minimum**
- ✓ **Only a single platform for control, communications and visualization**
- ✓ **Access to all markets of factory automation**
- ✓ **Flexibility in view of future product generations**

Select Your Maximum



Controller

netX 6

netX 10

netX 52

netX 50

netX 51

netX 100

netX 500

CPU	xPIC*	ARM 966 / xPIC*	ARM 966 / xPIC*	ARM 966	ARM 966 / xPIC*	ARM 926	ARM 926
RAM / ROM (KByte)	208 / 32	296 / 64	672 / 64	96 / 64	672 / 64	144 / 32	144 / 32
Dual-Port-Memory (bit data bus)	8 / 16 / 32	8 / 16 / 32	8 / 16 / 32	8 / 16 / 32	8 / 16 / 32	8 / 16	8 / 16
External Memory Bus	No	Yes	No	Yes	Yes	Yes	Yes
Communication channels	2	1	2	2	2	3	4
I ² C / SPI / SQI	2 / 1 / 1	1 / 1 / 1	2 / 1 / 1	2 / 2 / -	2 / 1 / 1	1 / 1 / -	1 / 1 / -
UART	3	2	3	3	3	3	3
USB (Device / Host)	D / -	D / -	D / -	D / H	D / -	D / H	D / H
IEEE 1588 / PHYs (Quantity)	Yes / Yes (2)	Yes / Yes (1)	Yes / Yes (2)	Yes / Yes (2)	Yes / Yes (2)	Yes / Yes (2)	Yes / Yes (2)
Dimensions (mm) / Housing (Pins)	15 x 15 / PBGA (244)	13 x 13 / FBGA (197)	15 x 15 / PBGA (244)	19 x 19 / PBGA (324)	19 x 19 / PBGA (324)	22 x 22 / PBGA (345)	22 x 22 / PBGA (345)

* Peripheral Interface Controller

Further information simply click boxes on the right or here: www.net-x.net/en

Your Access to the netX World

1

Select Controller

- ▶ Fieldbus or Real-Time Ethernet?
- ▶ Slave or Master?
- ▶ Which range of functions?

2

Defining the level of Development

- ▶ netX implementation or netX plug-in module?
- ▶ Which development platform?

3

Perform Design-In

- ▶ Integration in the customer's hardware

Typical Applications

Slave Interface
netX 6 / 10 / 50 / 51 / 52

Master Interface
netX 100 / 500

Complete Systems Solutions
(Control + Visualization + Communication)
netX 500

Design Your Own Framework



License Model A
LFW: Loadable Firmware



Software as Loadable Firmware (LFW)



Support (limited period)



Simple license contract



License Model B
TUA: Technology User Agreement



Software as a Linkable Object Module (LOM)
(linkable object library)



Support (unlimited)



Slave software in source code



ESCROW insurance



Participation in regular netX Technology Meetings



Extended license contract
(Software and maintenance contract)



Options & Accessories



Driver library



Board Support Package



Configuration software



Soft PLC and visualization



Design Guide



Automated manufacturing tests



Worldwide, more than 150 renowned device manufacturer use the netX as a basis for the implementation of own communications interfaces

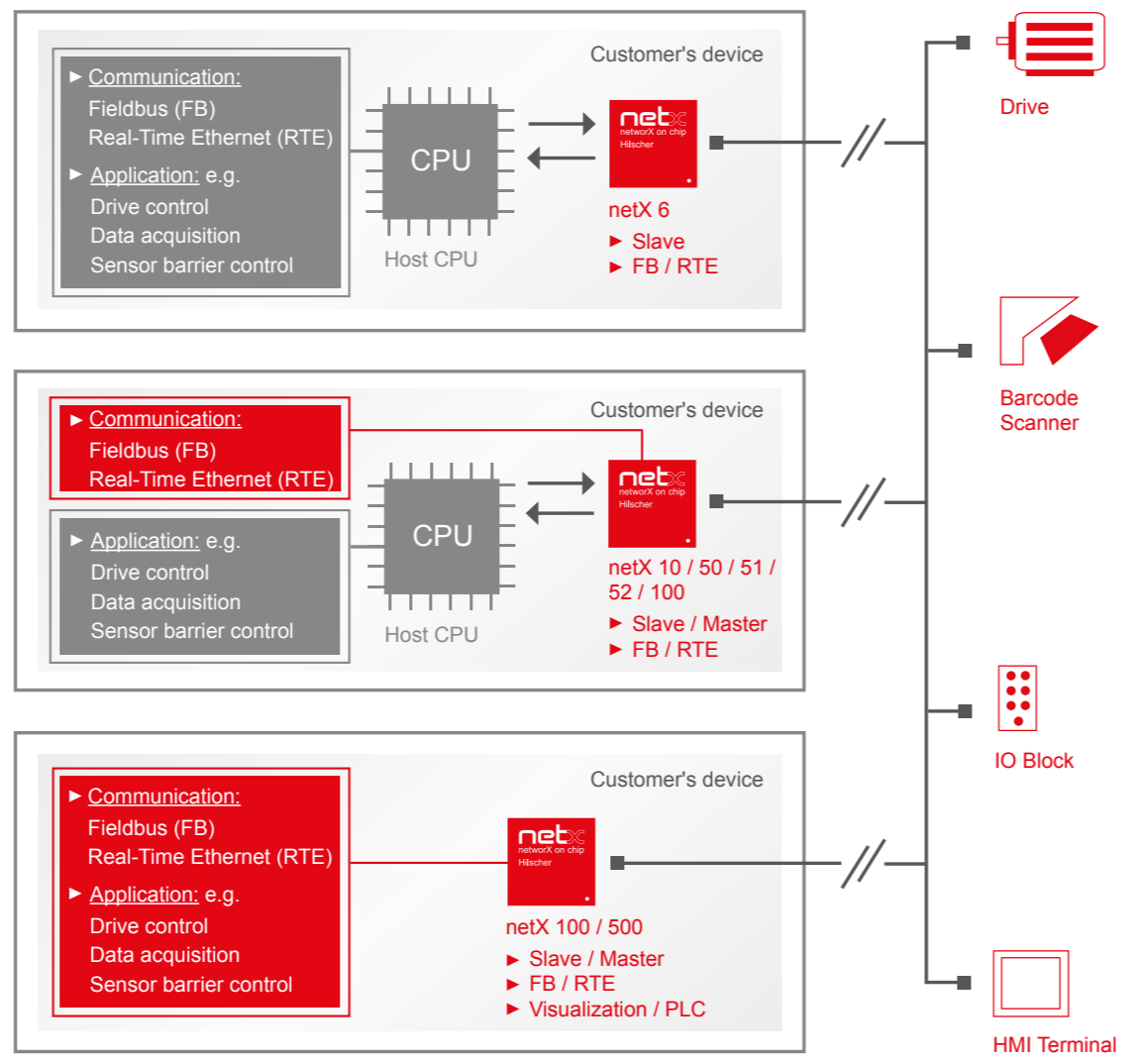
Supported Systems



Your Flexibility at a Glance

Application Cases

- A** Communication and Application: Host Controller
Network Access: netX
netX 6: Slave
- B** Application: Host Controller
Communication and Network Access: netX
netX 10 / 50 / 51 / 52: Slave
netX 100: Slave + Master
- C** Communication, Application and Network Access: netX
netX 100 / 500: Slave + Master



Hilscher's Range of Services

- Support in selecting the appropriate system (hardware/software)
- Providing consultancy and support in selecting the appropriate firmware
- Providing consultancy and support in selecting the appropriate evaluation components
- Trainings and workshops adapted to your application and netX
- Preparation of functional specification documents
- Hardware and software development of interfaces / devices / systems
- Pre certification tests
- Providing support during certification procedures
- Prototype construction and pilot lot production
- Production services
- Providing support and consultancy during your development phase
- Developer forum www.industrialNETworX.com for exchanging experiences

You design - We support

You specify - We develop

Support in selecting the appropriate system (hardware/software)	✓	✓
Providing consultancy and support in selecting the appropriate firmware	✓	–
Providing consultancy and support in selecting the appropriate evaluation components	✓	–
Trainings and workshops adapted to your application and netX	✓	–
Preparation of functional specification documents	–	✓
Hardware and software development of interfaces / devices / systems	–	✓
Pre certification tests	✓	✓
Providing support during certification procedures	✓	✓
Prototype construction and pilot lot production	–	✓
Production services	–	✓
Providing support and consultancy during your development phase	✓	–
Developer forum www.industrialNETworX.com for exchanging experiences	✓	–

✓ = Hilscher Service – = Inapplicable

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