

netJACK

Powerful Exchangeable Module for Embedded Designs

- All major industrial protocols
- Master and Slave
- One hardware for all Real-Time Ethernet protocols
- Host interface via PCI Express, Dual-Port-Memory or SPI
- Easy slide-in mounting without tools
- Locks and connects without additional components on the baseboard



The PCI Express communication module

The universal communication module netJACK with its PCI Express interface addresses in particular the embedded market with high-performance CPUs e.g. Intel Atom®. Alternatively there are options with traditional Dual-Port-Memory and fast serial SPI interface.

All types have a compact design as closed IP 40 module, which can be mounted without tools. As connector and mounting rails are formed as contact area and cut-outs on the baseboard, there are no additional costs for the device.

netJACK can be mounted quick and easy immediate before shipment - or even by the end customer.

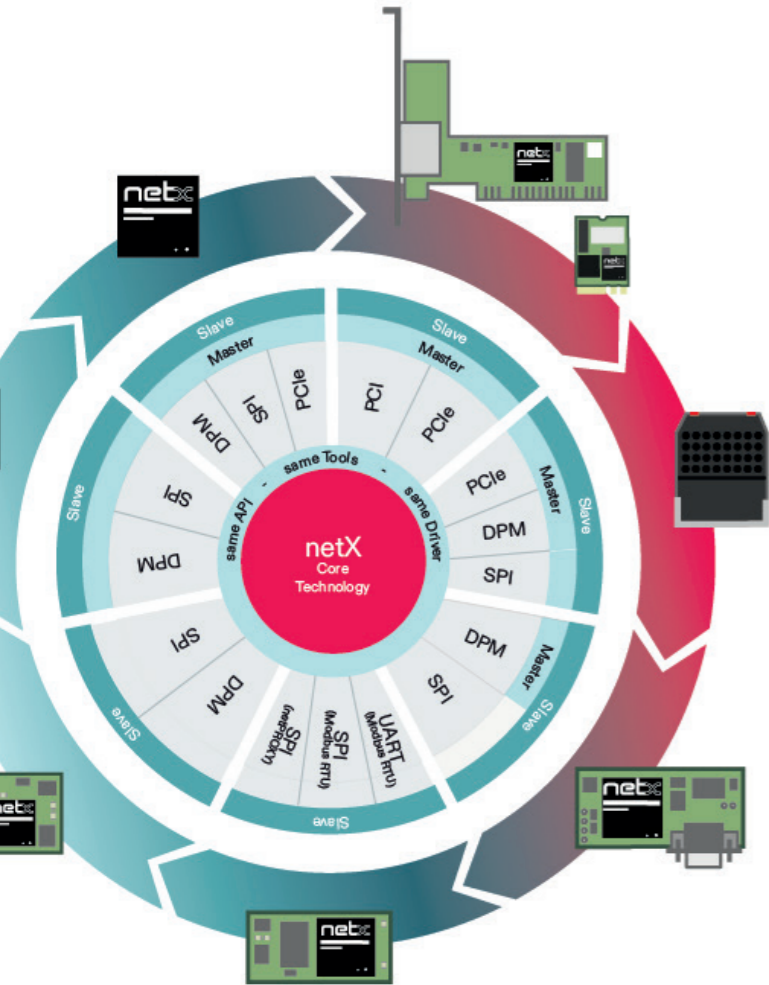
With netJACK customers can realize the full range of communication solutions of e.g. drives, HMI or ident systems. At the same time additional functionalities as PLC or Visualisation are possible. For customer specific requirements Hilscher offers an optimized Design- and Production service at reasonable costs.

Due to own network controller netX a 10-year guarantee of delivery is granted.



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www.hilscher.com

Pluggable Communication Module for Real-Time Ethernet & Fieldbus – netJACK



Same Function - Same API - Same Tools

The Hilscher Platform Strategy provides the whole range of communication solutions to the user – from standardized PC card up to the integration of the multi-protocol chip netX. All solutions – whether Master or Slave – have the same interface to the application and use the same tools.

After single integration of the application interface the change to a different hardware format or a different physical host interface is a purely hardware optimization process without fundamental changes of the software structure.

Real-Time Ethernet & Fieldbus protocols

As specialist for industrial communication Hilscher offers the largest selection of protocols used in the factory automation. Besides traditional Fieldbus all major Real-Time Ethernet protocols are available - and that's as Master or Slave.

For selected Real-Time Ethernet protocols the firmware update can be done via an integrated Webserver. Furthermore the data exchange via Ethernet or TCP/IP is supported.



NJ 52D-COS



NJ 52D-DNS



NJ 100EN-RE



NJ 51D-RE



NJ 100EN-DP



NJ 100DN-DP

Multi Network Design

All netJACK modules have the same dimensions and are pin-compatible to each other. Thus you can cover the whole range of network protocols with exactly one baseboard design. Thanks to common interfaces you can react quickly and most flexible to new market requirements - with a maximum of time- and costsavings.

Universal Module or Slave only

The Hilscher netJACK modules are available as universal modules or as slave only modules. The universal module can be used both as Master and as Slave. The host interfaces provided are PCI Express or Dual-Port-Memory. The Slave modules are specifically designed for demanding field devices and provide a Dual-Port-Memory interface as well as a fast SPI interface.

Easiest handling & design

Fixing and connecting a netJACK doesn't need any connectors or mounting rails. With metal clamps and a latch mechanism on the module a shock- and vibration-proof installation is ensured. As true option module there are no hidden costs in the baseboard design.

Easiest integration

For a quick and easy integration Hilscher offers a wide range of device drivers. Besides a C-Toolkit free of charge, drivers for all relevant operating systems are available – in most cases as source code.

EtherCAT EtherNet/IP ETHERNET POWERLINK

PROFINET

PROFIBUS

CANopen

Modbus

Sercos the automation bus

DeviceNet

CC-Link IE Basic

CC-Link

VARAN



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empowering communication

Productinformation

Technical Data

Technical Data

Operating Temperature
-20 ... +65 °C

Operating Voltage
+3.3 V / 300 - 800 mA

Dimensions (L x W x H)
53,4 × 25,2 × 19,2 mm / front plate
60 × 50,4 × 19,2 mm / module

Processor
netX 51 / netX 52 / netX 100

System Interface
8-/16 bit DPM or 50 MHz SPI

Weight
max. 80 g

Certification
CE, RoHS, Reach, UL, UKCA

Emission
CISPR 11 Class A

Technical Data

Noise Immunity
EN 61131-2:2003

Mounting
by cut out on the base board

Connector
Samtec FSI-120-03-G-D-AB for NJ 100EN
Samtec FSI-130-03-G-D-AB for NJ 10D / 50D

LED Indicators
SYS, COM 0, COM 1, APL, Link, Rx/Tx

Shock and Vibration
EN60068-2-6 Fc / EN60068-2-27 Ea

SPI
50 MHz (NJ 10, NJ 51)

Dual-Port-Memory
8-/16 bit

PCIe
One-Lane-Port 1,5 GHz

Note: All technical data may be changed without further notice.

Product Overview

NJEB-D
Evaluationboard for Dual-Port-Memory

NJEB-E
Evaluationboard for PCI Express

Product	Slave only	Universal Module (Master & Slave)	CANopen	DeviceNet	PROFINET Basic	EtherCAT	EtherNet/IP	ETHERNET POWERLINK	Modbus	PROFINET Advanced	CC-Link IE Basic	sercos III	1)	SPI	DPM	PCIe
netJACK 51 NJ 51D	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓	✗
netJACK 52 NJ 52D ²⁾	✓	✗	✓	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓	✗
netJACK 100 NJ 100DN	✗	✓	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓	✗
netJACK 100 NJ 100EN	✗	✓	✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗	✓

1) Slave only 2) Function compatible to NJ 10D



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