

Embedded Solutions

Communication Solutions for Embedded Designs



www.hilscher.com

Hilscher Platform Strategy

Same function - Same application interface - Same tools

Shape independent – From PC Card to ASIC

Protocol independent – All Fieldbus and Real-Time-Ethernet systems
 Hierarchy independent – Whether Master or Slave
 Future Proof – Migration from PC Card to Chip without software modification
 Secure investment – Substantial synergies and cost savings across the entire platform

The Hilscher Platform Strategy provides the whole range of communication solutions to the user – from a 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 pure hardware optimization process. This allows the same range of functionality without fundamental changes of the software structure. A change of the communication protocol is mostly done by just loading a different firmware.

Thanks to the common netX core technology you will profit from continuous improvements and functional extensions – and that's across the entire platform.



Your Benefits



Once integrated all networks and formats are useable



One design for Master and Slave applications



One tool to configure all products



Always the same proven technology



Cost optimization during the life cycle via migration paths



Reduced development effort thanks to consistent interfaces



One contact for all levels of integration



One sustainable communication solution for your long-term product strategy

Choose Your Embedded Design

Chip Carrier

THE

8-/16-bit or 50 MHz SPI

Dual-Port-Memory (DPM)

USB 32 x 32 x 4 mm

3,3 V / 330-520 mA

-20 ... +70 °C

Solderable (SMD or by hand)

Partial integrated solution

Network connector Host CPU

Loadable Firmware

52

🗸 (RE)

netRAPID

10

🗸 (FB)



Ser Eller

netlC 10 / 50 ✓ (FB) ✓ (RE) ✓ (FB) ✓ (RE) J – UART or SPI Modbus RTU (MBR) UART 42 x 21 x 17,4 mm (incl. pins and heatsink) 3,3 V / 330-400 mA -20 ... +70 °C with heatsink DIL 32 socket Full functional module

Network connector Host CPU or shift registers

Communication Module



comX	(
10	/	51	/	100
🗸 (FB)		√ (F	RE)	\checkmark
-		-		\checkmark
8-/16-bit o	or 50	MHz S	PI	8-/16-bi
Dual-Port-Memory (DPM)				
UART or USB				
70 x 30 x 21,5 mm				
3,3 V / 300-700 mA				
-20 +65 °C				
Metal mounting blocks				
Full functional module				
Host CPU				

Slave
Master
Physical host interface
Logical host interface
Ext. diagnostic interface
Size L x W x H
Power consumption
Operating temperature
Mounting
Integration
You need

(FB) = Fieldbus (RE) = Real-Time-Ethernet

	THE REAL PROPERTY AND A RE	

	netJA	λCK		,		,	
_	100	/	51D	/	100DN	/	100EN
	🗸 (F	B)	🗸 (Re	Ξ)	\checkmark		\checkmark
	-		-		\checkmark		\checkmark
	8-/16-bi	t or 50) MHz SPI		8-/16-bit		PCI Express
_	Dual-Port-Memory (DPM)						
	USB						
	60 x 50,4 x 19,2 mm (Module)						
	3,3 V / 300-800 mA						
	-20 +65 °C						
_	Cut outs in the baseboard + metal clamps						
	Full functional module						

Exchangeable Module

Host CPU

Embedded PC Card



CITX		
90	/ 90E	
\checkmark	✓	
\checkmark	\checkmark	
PCI	PCI Express	
Dual-Port-N	Jemory (DPM)	
-	_	
),0 x 45,0 x 9,5 mm	51,0 x 30,2 x 11,0 mm	· /
3,3 V / 6	00-800 mA	/
-20 +70 °C	0 +55 / -20 +70 °C	
Standard	I mini PCI	
Industry st	andard PCI	

Standard IPC Hardware

60

Start Your Communication Solution



Design Your Own Framework





Possible Applications





SCADA solutions. They can seamlessly integrate most of brand-name control systems in all IP-based smart factories."

Schneider Gelectric

netJACK creates no additional costs in the design and can be mounted directly by our end-user."



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