The comX communication module is designed for integration in automation devices e.g. robot controllers, PLCs or drives to add a network interface. All communication tasks are executed autonomously in the module - independent of the processor of the target device.

Process data exchange is done via a Dual-Port-Memory, either as 8-/16-bit bus interface or as 50 MHz SPI interface.

comX supports all major Real-Time Ethernet protocols as Master or Slave and covers all network specific demands in a single module. For support of a line topology the module is equipped with two Ethernet ports.

A change of the communication protocol is done by simply loading a different firmware and adding a software license upgrades to a master.

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

All comX 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 cost-savings.

100% Flexibility

The modules of the comX family offer the highest degree of flexibility. You can choose between the following types:

- with integrated network connector
- with network interface to the baseboard
- with fiber optics pursuant AIDA
- with integrated switch for slave address

The host connection is done either via a parallel 8-/16-bit bus or a fast SPI interface with up to 50 MHz.

Universal Module or Slave only

The Hilscher comX modules are available as universal modules or as slave only modules. The universal module can be used both as Master and as Slave. The Slave modules are specifically designed for demanding field devices. They provide integrated rotary switches for the slave address and a fast SPI interface to the host.
### Technical Data / Product Overview

#### Parameter | Value
--- | ---
Operating Temperature | -20 \( \ldots \) +65 °C
Operating Voltage | +3.3 V / 300 - 700 mA
Dimensions (L x W x H) | 70 x 30 x 21.5 mm
Processor | netX 10 / netX 50 / netX 51 / netX 100
System Interface | 8/16 bit DPM or 50 MHz SPI
Weight | max. 40 g

#### Variant | Function
--- | ---
CA | angled network connector
CN | Connector to the baseboard

#### System bus | Value
--- | ---
Dual-Port-Memory | 8/16 bit
SPI | 50 MHz (COMX 10, COMX 51)

#### Article Description | Article
--- | ---
CIF 50-CB-COM-ABC | For evaluation: PCI Carrierboard
CIF 50 DB-COM-CA | For evaluation: Adapter card for COMX as CA type

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#### Technical Data

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1) Slave only
2) COMX 50CA PROFINET IO RT Device with fiber optic
3) also MPI
4) planned

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**Note:** All technical data is preliminary and may be changed without further notice.

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