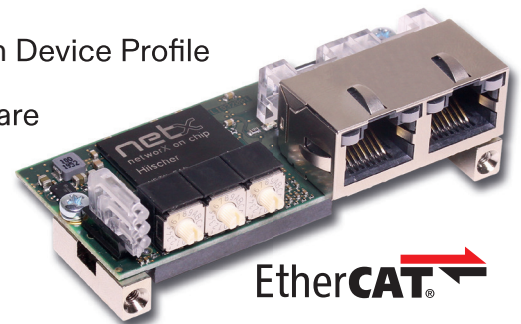


# comX for Semiconductor Industry

## comX für die Halbleiterindustrie

- EtherCAT Slave Network interface for semiconductor manufacturing equipment devices
- Developed according to the ETG.5003-1 standard, the Common Device Profile (CDP)
- Ready to use, due to preloaded EtherCAT Slave firmware
  
- EtherCAT Slave Netzwerkschnittstelle für die Tools der Halbleiterindustrie
- Entwickelt nach dem ETG.5003-1 Standard, dem Common Device Profile
- Sofort nutzbar durch vorinstallierte EtherCAT Slave Firmware



### Embedded module for the semiconductor manufacturing equipment market

Hilscher's „comX“ communication module, which is a proven technology in factory automation, extends its range of functions for easy integration of EtherCAT communication in semiconductor manufacturing equipment. The flexible embedded module now includes hardware and software adjustments to support the EtherCAT standard ETG.5003-1, the semiconductor device profile. Thus, from now on the comX series also has a dedicated module for use in, i.e. mass flow or temperature controllers, vacuum gauges and SubFab systems, the so-called tools of the semiconductor industry.

### Embedded Modul für Fertigungsmaschinen der Halbleiterindustrie

comX, das in der Fabrikautomation vielfach bewährte Kommunikationsmodul von Hilscher, erweitert seinen Funktionsumfang für eine einfache Integration der EtherCAT Kommunikation in Fertigungsmaschinen der Halbleiterindustrie. Das flexible Embedded Modul umfasst fortan hardware- und softwareseitige Anpassungen, um den EtherCAT Standard ETG.5003-1, dem Halbleiter Geräteprofil zu unterstützen. Somit verfügt die comX-Serie nun auch über ein dediziertes Modul für den Einsatz in u.a. Massendurchfluss- oder Temperaturreglern, Vakuummetern und SubFab Systemen, also den s.g. Tools der Halbleiterindustrie.



- QR Code Link: [comX 51CA-REVR](#)  
Service-Hotline: +49 (0) 6190 9907-90  
[www.hilscher.com](http://www.hilscher.com)

# Technical Data

## Technische Daten

### Technical Data

**Operating Temperature**

-25 ... +70 °C

**Operating Voltage**

+3.3 V ± 5% DC / 450 ... 500 mA / max. 1.65 W

**Dimensions (L x W x H)**

70 × 30 × 21,5 mm

**Weight**

max. 40g

**Processor**

netX 51

**Dual-Port-Memory**

16 kByte, 8-/16 bit

**Integrated Memory**

8 MB SDRAM, 4 MB SPI-Flash-EPROM

**Certification**

CE Sign, RoHS, UKCA

**Mounting**

metal mounting blocks, according to comX Design Guide

**Emission**

EN 55011:2009 Class A; CISPR 11. Class A

**Noise Immunity**

according to IEC/EN 61000-4

**Configuration Software**

System configurator SYCON.net

### Technical Data

**Connector**

Samtec SFM-125-02-S-D-A

**Contacting / Pinout**

50 Pin SMT connector, female with 1,27 mm grid

Corresponding male connector:

- SAMTEC TFM - 125 - 02 - S - D - A or
- TFC - 125 - 02 - F - D - A

**LED Indicators**

SYS-System (RUN/RDY), COM-Status 0/1 (COM 0/1), Ethernet-Status Link (Link 0/1), Activity (Tx/Rx0, Tx/Rx1)

**Diagnostic Interface**

UART (RXD, TXD), USB (RX0, TX0, USB+, USB-)

**Communication Interface**

- EtherCAT Slave, IEEE 802.3/ Ethernet II
- Ethernet 100 BASE-TX, isolated, 10 BASE-T

**Ethernet Interface**

- 2x RJ45 10/100 Mbit/s
- Adress selection via 3 hexadecimal rotary switches, according to ETG5003 and ETG1020

**SPI Interface**

- SPI Slave, Mode 3
- CPOL: 1
- CPHA: 1

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

### Product Overview

COMX 51CA-RE\R	1571.101	comX communication module for EtherCAT with rotary switch
COMX EB	1530.000	comX Evaluationboard - For evaluation of all comX types (incl. Software package and 24V power supply)



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