MARKET-BASED SOLUTIONS

FIELDBUS-TECHNOLOGY

FROM DEUTSCHMANN
FOR GOOD RESULTS!

BERLIN Technologies

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Deutschmann

Cam Controls | Fieldbus Gateways | Industrial Ethernet Products

21 YEARS OF
FIELDBUS TECHNOLOGY

FROM DEUTSCHMANN

250,000 INSTALLATIONS
SPEAK FOR THEMSELVES

PROTOCOL CONVERTER
UNIGATE® CL

For all devices with a serial interface.

ALL-IN-ONE BUS NODE
UNIGATE® IC

Integrating fieldbus and Ethernet interfaces with minimal development effort.

THE INTELLIGENT GATEWAY
UNIGATE® CX

Making incompatible networks compatible.

WE PROVIDE
TURNKEY SOLUTIONS

We may not have invented the wheel – our communications solutions, however, have frequently set the benchmark for the industry.

1976   Company foundation

1980   Electronic cam controls

1989   DICNET, Deutschmann's first own bus system

1993   Foundation of the fieldbus technology division

1996   First fieldbus gateway

1999   Release of the proprietary script language Protocol Developer

2001   UNIGATE® IC series

2006   Expansion of the Industrial Ethernet portfolio

2010   UNIGATE® AS-i Master for all fieldbuses
        UNIGATE® IC BACnet/IP

2011   UNIGATE® CL and IC BACnet/IP

ONLY THE BEST
WORK FOR US!

Because they are enthusiastic, innovative, competent, and quality-conscious.

The management

Dipl.-Ing. Gunther Lawaczeck
Development and technical management

Michael M. Reiter
Business management, sales, and marketing

Horst Baumann
Production and material management

The team

In development, sales, and support, all our experts work towards one aim: the right solution for your requirements.

We at Deutschmann provide excellent service, and we are always up for a challenge!
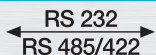
UNIGATE® CL
ONE SOLUTION FOR ALL DEVICES
with a serial interface

UNIGATE® CL protocol converters connect serial interfaces with the fieldbus or Ethernet standard of choice. All models feature RS232, RS485, and RS422 interfaces. They can easily be configured for communication with protocols such as Modbus ASCII, Modbus RTU (Master or Slave), 3964 (R), RK512, DIN measuring bus, and DIN 19244. Alternatively, the terminal device can be addressed via an own script.

For programming the script, we provide the Protocol Developer PC tool free of charge. You can develop it yourself or have us do it for you!
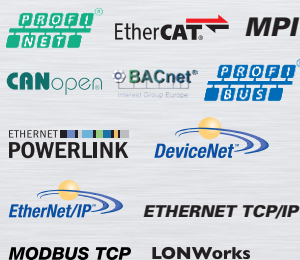
The modules in a modern housing require a 10…33 V DC supply voltage. They are suitable for industrial applications and are specified for the industrial temperature range.

Application side	Bus side
RS 232 ← → RS 485/422	PROFI NET EtherCAT MPI
■ Modbus RTU Master/Slave	CANopen BACnet PROFIBUS
■ Modbus ASCII	
■ 3964 (R)	ETHERNET POWERLINK DeviceNet
■ RK512	
■ DIN 19244	EtherNet/IP ETHERNET TCP/IP
■ DIN 66348-2 (measuring bus)	
■ Proprietary protocols	MODBUS TCP LONWorks
■ Flexible due to a freely programmable script	
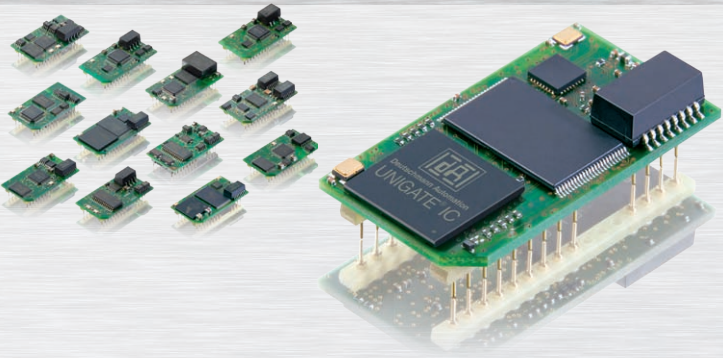
UNIGATE® IC
INTEGRATING FIELDBUS
and Ethernet interfaces with minimal development effort

The UNIGATE® IC series provides ready-to-install fieldbus or Ethernet nodes in a DIL32 housing. Engineers merely have to consider the UNIGAT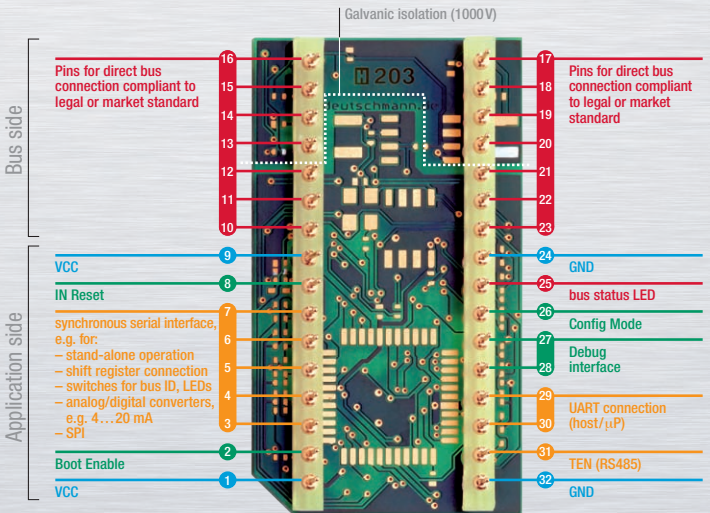E® IC pinout when developing new devices, or implement it via a redesign. A script converts the terminal device's protocol to the fieldbus or Ethernet standard. Changes to the firmware are no longer necessary.

For programming the script, we provide the Protocol Developer PC tool free of charge. You can develop it yourself or have us do it for you!

Galvanic isolation (1000 V)

Bus side

Pins for direct bus connection compliant to legal or market standard

Pins for direct bus connection compliant to legal or market standard

Application side

Pin	Left label	Pin	Right label
9	VCC	24	GND
8	IN Reset	25	bus status LED
7	synchronous serial interface, e.g. for:	26	Config Mode
6	– stand-alone operation	27	Debug interface
5	– shift register connection	28	Debug interface
4	– switches for bus ID, LEDs	29	UART connection (host/μP)
3	– analog/digital converters, e.g. 4…20 mA	30	UART connection (host/μP)
2	– SPI / Boot Enable	31	TEN (RS485)
1	VCC	32	GND

UNIGATE® CX
THE FLEXIBLE SOLUTION
making incompatible networks compatible

Various fieldbuses and Industrial Ethernet standards have taken hold in the automation industry the world over. The challenge of connecting these incompatible communication systems remains a big one.

UNIGATE® CX DIN rail modules have been developed precisely for this purpose. The units combine various fieldbus and Industrial Ethernet interfaces. Quasi-uniting two UNIGATE® CL in a modular setup, UNIGATE® CXs are available for any fieldbus/Ethernet combination.

We continuously adapt the Deutschmann product portfolio to current demands, thus ensuring that you will always get the product you require!

Fieldbuses and Industrial Ethernet

PROFINET

EtherCAT.

MPI

CANopen

BACnet®
Interest Group Europe

PROFIBUS

ETHERNET POWERLINK

DeviceNet

EtherNet/IP

ETHERNET TCP/IP

MODBUS TCP

LONWorks

WINGATE
Configuration tool

UNIGATE® CL line of converters can be configured comfortably by means of the WINGATE configuration tool. All models can transfer data via the established protocols 3964R, RK512, Modbus ASCII, Modbus RTU (Master or Slave operation), and RS232.

Protocol Developer

Common configuration tools for protocol converters and gateways are inflexible and predefine entries. Conventional software is usually not designed for adapting the firmware to particular protocols. Changes and customer-specific adjustments can hardly be implemented, or they require expert knowledge of the bus.
Therefore, Deutschmann developed an own script language as early as 1999. Now, users only have to process the input data from the bus. No longer do they have to deal with the peculiarities of fieldbuses and Industrial Ethernet standards. With Protocol Developer, users can write scripts without any knowledge of programming languages.

ELECTRONIC
CAM CONTROLS

Even in times of fast PLCs, electronic cam controls remain an essential tool.

- Short, constant cycle times and a high number of outputs
- High maximum load currents of 1 A
- Dynamic idle time compensation
- Logic functionalities

Modern LOCON®- and ROTARNOCK®-type cam controls are way ahead of their competitors in every respect.

Conventional devices:

The LOCON® series is based on the traditional concept of a separate cam control and actual value acquisition. The devices are operated either by means of the integrated keypad or a connected PC, or via a fieldbus system.

Integrated devices:

The ROTARNOCK® series is an intelligent solution combining cam control and actual value acquisition. The devices can be operated via a terminal, a PC, or a fieldbus system.

VISIONS, COMMUNICATION, PARTNERSHIP, COMMON GOALS, CUSTOMER RELATIONS ...

WE GROW WITH MARKET DEMANDS AND WITH OUR CUSTOMERS.

Support:

You can contact our support team via our free-of-charge hotline or by e-mail.

Workshops:

In workshops about our UNIGATE®-type all-in-one bus nodes, our expert developers will acquaint you with our products and address ways how to easily realize your projects with Deutschmann.

Download area:

Documents and tools for all our products can be downloaded from our website free of charge.

FAQs:

Our website provides the answers to frequently asked questions.

Service:

On request, we support you during commissioning or service calls, or program scripts according to your specifications.

Deutschmann