

W&T products

Overview for business customers

As a distributor of Wiesemann & Theis products, we can present you with a wide range of high-end products from the company.

Web-IO – Network technology - Serial <> Ethernet - Serial Interfaces

Active Communication has been working with W&T products since 1992 and has been an official distributor in Denmark, Sweden, Norway, Iceland and Greenland since 2001.

We place great emphasis on advice and support. If required, our customers get direct access to W&T product developers, a 5-year warranty and the opportunity to try the product free of charge for 30 days.

The product list is based on W&T's official list and all prices are stated in DKK excl. VAT.

W&T's products are unique and of very high quality.

See the products on <https://www.actcom.dk>

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Suppliers to customers – become a reseller by contacting us.



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This product overview is for informational purposes only. The complete range, applications, etc. can be found on actcom.dk/

About W&T

With 50 employees, W&T invents, develops, manufactures, and distributes durable microcomputers that connect data interfaces, networks, and I/O points. Our customers value us as a straightforward, helpful and competent partner.

Support

Are you looking for a special solution or do you need technical assistance? Our and W&T teams of technicians will be happy to assist you Monday to Friday between 8:00 and 16:00.

5-year warranty

Once the statutory warranty period has expired, we will repair or replace free of charge the few units that have broken due to a material defect for a further three years, provided that they are sent to us with payment for transportation. For resold goods, only the statutory warranty period applies.

30-day free trial

With us, you can request any product on sample and test it for free for 30 days. If you choose not to make use of your right of return, you just have to pay the invoice sent.

Short delivery times

Standard items ordered Monday to Friday before 15:30 p.m. is usually sent to you the same day via Post Nord. For items that are not in stock, the delivery time is + 3 days.

In the rare case where we can only deliver later, we will contact you immediately.

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Web-IO Analog)

Frank Thiel

(Web-IO Digital)



Web-IO - Product Group



Register, monitor and control the network

Web IOs are components for deploying small to medium-sized remote I/O and monitoring AP applications over TCP/IP Ethernet.

Each Web-IO has a user-friendly interface and can be used as a standalone device for direct access to individual I/O or metering points. For example, digital outputs can be switched via MQTT, or email notifications can be sent when one of the inputs changes state.

For larger installations with multiple Web-IOs, Motherbox (p. 18) serves as a convenient "control center," while rule.box with the Node-RED development tool (p. 17) is available for automated tasks.

Overview Web-IOs:

Web-IO Digital

Intercept, monitor and switch control signals (24V or 230V technology)

Web Thermometer

Record temperatures and make them available over the network

SIP Ring Switch

Switch via call via VoIP

Web-IO Time Switch

Timed switching according to key specifications

Web-IO Analogue 0-10V / 0-20mA

Access analogue current and voltage signals

For more information, see actcom.dk/webio

Web-IO Digital -

With Web-IO Digital, you can capture, monitor, and switch control signals within the network. The digital inputs are continuously monitored. When states change or critical counter values are reached, notifications can be sent, for example via email, SNMP or MQTT.

Software interfaces for easy integration into your systems/databases:



Web Standards

- HTTP, HTTPS
- EMail
- FTP (data logging)



IoT and Industry 4.0

- MQTT
- REST
- OPC UA



Classic OT

- Modbus TCP
- OPC EN
- Syslog, SNMP V1, V2, V3



Open standards

- TCP and UDP sockets, client and server

Applications

- Remote monitoring and error message detection
- Home automation, building automation, cross-location shifting
- Process Monitoring & Visualization, Machine Data Collection (MDA)
- Checking lights, gates and barriers
- Shift Mode Detection
- Alarm and notification functions
- And much more

Web-IO Digital 24V with Inputs and Outputs



Fig. Shows #57737

Decentralized network I/O systems

Inputs

- Digital inputs with 24V technology (8–30V)

Outputs

- Digital outputs with 24V technology (6–30V, 500mA)
- Short circuit proof

Logic functions - link inputs and outputs

Power Supply 12–24V DC (approx. 100mA @ 24V) or PoE

Net prices for commercial users

Web-IO 4.0 Digital 2xIn, 2xOut	57737	2.535,00 DKK
Web-IO 4.0 Digital 12xIn, 12xOut	57730	3.285,00 DKK
Web-IO 4.0 Digital 12xIn, 12xOut, 1xRS232 with integrated Com-Server function	57731	4.185,00 DKK

Datasheet and additional accessories available on actcom.dk/webio24v

Web-IO Digital 24V/48V with Relay Outputs



Fig. shows #57738

Potentially free switching, monitoring, counting

Up to 12 digital inputs (depending on type)

- Max. input voltage $\pm 30V$

Potential-free outputs:

- #57150: 2x Relays up to 48V (2x CO)
- #57151: 4x Relays up to 48V (3x NO, 1x CO)
- #57738: 12x Relays up to 30V (7x CO, 1x NO)

Net prices for commercial users

Web-IO 4.0 Digital 2x In, 2x Relais Out	57150	2.835,00 DKK
Web-IO 4.0 Digital 4x Relais Out	57151	2.835,00 DKK
Web-IO 4.0 Digital 4x Relais Out	57738	3.360,00 DKK

Datasheet and additional accessories available on actcom.dk/webio24v

Web-IO Digital 24V with switchable Inputs/Outputs



Fig. shows #57733



Fig. shows #57736

24V Control Signals in the Network

4 or 16 channels

- 24V technology
- Configurable as input or output
- Integrated 32-bit heart rate counter
- External Power Supply: 12–24V DC (approx. 100mA @ 24V)
- 10/100 BaseT autosensor.
- Max. Shifts Per Second: 500

Ideal for control cabinets, distribution plates (UV)

- 90 x 45 x 56 mm (LxWxH) (#57733)
- 90 x 116 x 56 mm (LxWxH) (#57736, #57756)

Additional logger function (#57756 only)

- Available in any web browser without any extra plugins
- Tabular view of changing events
- Export any data logger time window to CSV files
- Memory for up to 1,000,000 timestamped events
- Minimum logging interval: 100 ms

Net prices for commercial users

Web-IO 4.0 Digital 4xIn/Out	57733	2.535,00 DKK
Web-IO 4.0 Digital 16xIn/Out	57736	4.285,00 DKK
Web-IO 4.0 Digital Logger	57756	5.285,00 DKK

Datasheet and additional accessories available on actcom.dk/webio24v

Web-IO Digital 230V



Fig. shows #57832

Switch 230V via Network

#57732

Input

- 230V AC input
- 32-bit Event Counter Output
- Potential-free output for 230V mains voltage
- Switching currents up to a maximum of 16A

#57832

Outputs (potential-free)

- Bistable Relays 230V
- 1x potentially free NO contact
- 1x Potential-Free CO Connector
- Max. 16A

#57838

Outputs (potential-free)

- Bistable Relays 230V
- Different types available:
- 4x potential free NO contact
- 4x Potential-Free CO Connector
- Max. 6A

Intuitive web interface

- Switch outputs directly from the web interface
- Optimized display for smartphones

Ideal for control cabinets

- 90 x 45 x 56 mm (LxWxH) (#57732, #57832)
- 90 x 116 x 56 mm (LxWxH) (#57838)



Fig. shows #57838

Net Commercial User Pricing

Web-IO 4.0 Digital 1x230V In, 1x Relay Ou	57732	1.785,00 DKK
Web-IO 4.0 230V Relay 1xNO, 1xCO	57832	1.785,00 DKK
Web-IO 4.0 230V Relay 4xNO, 4xCO	57838	2.535,00 DKK

Datasheet and additional accessories available on actcom.dk/230v

SIP Ring Switch



Switch via VoIP or SIP protocol

Registers in the phone system as an IP phone

4 separate switching channels (24V technology)

Compatible with current Voice-over-IP solutions

Possible uses:

- Gate, door and barrier control
- Lighting control
- Extra doorbell

Net prices for commercial users

SIP Ring Switch 4xOut

57753

3.285,00 DKK

Data sheets and additional accessories are available on actcom.dk/57753

Web-IO Time Switch



Switch via online calendar

- Control switch outputs according to a calendar file
- (iCal format/*.ics)
- Time-controlled switching from online calendars (Google, Apple iCloud, etc.)

Manual upload

- Automated loading from a web server
- 4 Connecting Channels
- Configurable for input or output
- 24V technology / 230V possible via accessory relay
- Switch currents up to 500mA

Net prices for commercial users

Web-IO Time Switch Digital 4xOut

57735

2.535,00 DKK.

Datasheet and additional accessories available on actcom.dk/57735

Web Thermometer



Fig. shows #57115

Temperature measurement via network

#57114

Temperature sensor NTC

- Measuring range: -45°C to 75°C

#57115 & #57725

Temperature Sensor Pt100

- Included W&T probe measuring range: -50°C to 180°C
- Measurement input: -200°C to 650°C

Alarm and reporting function

- Send an email for alarm alerts or reporting
- SNMP Queries / Alarm Traps
- Up to 12 alarm messages can be configured

Software interfaces for integration into your systems

- Modbus TCP
- Syslog
- Sensobase (ODBC)
- TCP and UDP sockets, clients and server
- FTP (data logging)
- Current Industry 4.0 protocols (OPC UA, REST, and MQTT)

Possible uses

- Monitor temperatures in server rooms, network cabinets, or offices
- Log file measured values via FTP, Excel file, email attachment, and internal memory
- Power supply 12–48V DC or 18–30V AC (RMS) or PoE

Net Commercial User Pricing

Web Thermometer NTC	57114	2.160,00 DKK
Web Thermometer Pt100/Pt1000	57115	2.535,00 DKK
Web Thermometer 1x Pt100/Pt1000	57725	2.535,00 DKK
Accessories		
Pt100 temperature sensor for indoor use	57011	165,00 DKK
Pt100 temperature sensor for outdoor use	57014	405,00 DKK

Datasheet and additional accessories available on actcom.dk/web-thermometer

Additional Web Thermometers



Capture up to 8 temperature values

Pt100/Pt1000 Measurement Input via Screw Terminal

- Measurement input range: -200°C to 650°C
- Measuring range W&T probe (1x included): -50°C to 180°C
- Power supply 24–48V DC or PoE

Fig. shows #57778

Net Commercial User Pricing

Web Thermometer UV 1x	57171	2.535,00 DKK
Web Thermometer UV 2x	57172	4.285,00 DKK
Web Thermometer 2x Pt100/Pt1000	57707	4.285,00 DKK
Web Thermometer 8x Pt100/Pt1000	57778	4.185,00 DKK

Datasheet and additional accessories available on actcom.dk/web-thermometer

Web Thermometer Relay



Measure, log and change

Pt100/Pt1000 Measurement Input via Screw Terminal

- Measurement input range: -200°C to 650°C
- Measuring range W&T probe (1x included): -50°C to 180°C

with digital semiconductor relay output

- Max. switching current: typ. 300mA AC/DC (top 500mA)
- Max. switching voltage: 39V AC/DC
- Maximum Switching Power: 11.7W AC/DC Power Supply 12-48V DC or PoE

Net prices for commercial users

Web Thermometer Relay	57726	2.985,00 DKK.
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Datasheet and additional accessories available on actcom.dk/57726

WLAN Thermometer 1x Pt100



Temperatures via WLAN network

Operation is possible in access point mode or Wi-Fi client mode. Document and visualize measurement data online in the W&T Cloud.

Alarm and reporting function

- MQTT messages
- Push notifications for mobile devices via ntfy.sh

Single value query

- Access to current measured values via HTTP(S) or TCP sockets

Net prices for commercial users

WLAN Thermometer 1x Pt100

97701

1.335,00 DKK.

Datasheet and additional accessories available on actcom.dk/97701

Web-IO CO2



Air quality

Networked unit of measurement for determining carbon dioxide concentration

CO₂ sensor measuring range:

- 0 - 5000 ppm CO₂

Possible uses:

- Indoor air monitoring and monitoring
- Air quality measurement in retail areas
- Stable climate monitoring, greenhouse monitoring, etc.

Net prices for business users

Web-IO CO₂

57721

4.110,00 DKK.

Datasheet and additional accessories available on actcom.dk/57721

Web Sensors for Indoor Air



Fig. shows #57113

Web sensors for °C, %RH and hPa

Temperature Sensor :

- Measurement range: -40°C to 85°C (#57113, #57120) or -20°C to 80°C (#57729)

Humidity Sensor:

- Measuring range: 0–100% RH (non-condensing)
- #57729: Sensor resistant to condensation, sunlight and precipitation – ideal for use in food production, tropical conditions and outdoor applications

#57113 Web Thermo-Hygrometer

- Air pressure sensor measuring range: 10–1100 hPa

Possible uses:

- Dew Point Measurement
- Climate monitoring of warehouses, cold storage, incubators
- Chemical industry
- Food industry
- Humidity monitoring in museums

Net Commercial User Pricing

Web Thermo-Hygrometer	57120	2.985,00 DKK
Web Thermo-Hygrometer	57113	4.285,00 DKK
Web Thermo-Hygrometer ++ Operation-free measurement even at consistently high humidity levels	57729	10.260,00 DKK

Datasheet and additional accessories available on actcom.dk/klima

Web Thermo-Hygrometer XT



Measure temperatures in harsh environments

Temperature Sensor :

Measuring range: -40°C to 85°C

- Humidity Sensor:
Measuring Range: 0–100% RH
- Permissible ambient range: 0–95% (non-condensing)

Protection class

- Appliance: IP67
- Sensor: IPx4
- Waterproof cable sleeves for all connections
- Extended supply range 24–60V DC or PoE

Net prices for commercial users

Web-Thermo-Hygrometer XT

57722

4.185,00 DKK.

Data sheet and additional accessories available on actcom.dk/57722

Web-IO Analog



Fig. shows #57161

Analogue inputs and outputs in the network

Two channels, configurable for inputs or outputs

#57161

- Current Input 0/4–20mA Active/Passive
- Current Output 0/4–20mA

#57162

- Voltage input 0–10V, 1M Ω m
- Voltage output 0–10V, I_{max} 20mA

Monitor analog metrics and trends via the Current Industry 4.0 browser protocols

(supports OPC DA/UA, REST, and MQTT)

Set values via socket command or direct input

With two devices in Box2Box mode, signals tunnel over the network

Internal data logger

- Storage capacity: minimum 150 days, max. 99 years
- Logging intervals: 15s, 30s, 1m, 5m, 15m, 60m

Power supply 12–48V DC (approx. 100mA @ 24V) or PoE

Net Commercial User Pricing

Web-IO 4.0 Analog 0 - 20mA	57761	2.535,00 DKK
Web-IO 4.0 Analog 0 - 10V	57762	2.535,00 DKK

Data sheets and additional accessories are available from actcom.dk/analog

Single Pair Ethernet (SPE)

The technology and its benefits

Single Pair Ethernet is the new Ethernet standard for Industry 4.0 and the Industrial Internet of Things. With many advantages, it is considered to be particularly efficient and future-oriented, making it suitable for a wide range of industrial, process and building technology applications.

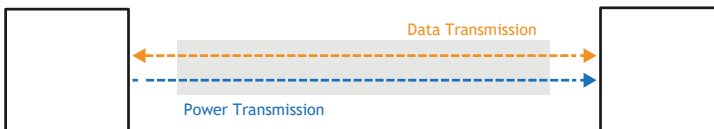
SPE enables end-to-end IP communication over TCP/IP – from the sensor to the controller all the way to the cloud. This unified communication model replaces complex fieldbus systems and gateways and significantly simplifies the network infrastructure.

Long distances

Cable lengths of up to 1000 m are possible – eliminating previous limitations (usually only 100 m) or the need for repeaters. This greatly expands the scope of application in large-scale industrial environments.

Power Supply via Data Line (PoDL / SPoE)

SPE supports Power over Data Line (PoDL) or Single Pair Power over Ethernet (SPoE). This makes it possible to supply sensors and IoT devices with both data and power over the same line – without separate power lines.



SPE-compliant components

While many manufacturers are still working on their first solutions, W&T already offers you the finished SPE components today:

SPE thermo-hygrometer for precise temperature and humidity measurement

Web-IO Digital SPE for flexible inputs and outputs

Network Extender SPE to extend the range of your classic Ethernet

Connectors, media converters and switches are already available – but with our SPE sensors and actuators, you will be among the first to benefit from the benefits of this technology.

Contact us - we are happy to support you!

Thermo-Hygrometer SPE



Fig. shows #57723
with screw terminal



Fig. shows #57723
with M8 connector

From sensor to cloud:

Measure temperature and humidity via SPE

The SPE Thermo-Hygrometer reliably detects temperature and humidity and makes the measured values directly available via Single Pair Ethernet. Thanks to numerous data interfaces, the device can be easily connected to the W&T Cloud, send MQTT messages, and send push notifications directly to smartphones.

As standard, the SPE of the thermohygrometer is equipped with a 3-pin screw terminal for connection. As variant #57723

TB901191 (see accessories), the device is also available with an M8 connector (IEC63171-5).

- **Temperature Sensor :**
Measuring range: 0°C... 85°C
- **Humidity Sensor:**
Measurement range: 0–100% RH,
Permissible ambient range: 0–95% (non-condensing)
- **Possible uses:**
Monitoring of temperature and humidity in server rooms,
Network cabinets, production, storage or offices

Net prices for commercial users

Thermo-Hygrometer SPE (3-pin screw terminal)	57723	2.235,00 DKK
Thermo-Hygrometer SPE (M8 connector)	57723 TB901191	2.235,00 DKK

Data sheet and additional accessories available on actcom.dk/57723

Web-IO Digital 2x In, 2x Relay Out SPE



Control, recording and monitoring via SPE

With Web-IO Digital SPE, switching signals can be controlled, captured and monitored. Four diaphragm buttons enable manual signal display. Numerous network services are available to report changes in input and output – even directly in the browser.

With protocols such as MQTT, Web-IO Digital SPE fits perfectly into the age of Industry 4.0 and the Internet of Things.

- 2x relay outputs max 24V 6A, switching
- 2x switching inputs max $\pm 30V$
- incl. integrated 64-bit heart rate counter control via potential-free contacts
- Supply: SPoE Class 11 (20–30V, 3.2W)

Net prices for commercial users

Web-IO Digital 2x In, 2x Relay Out SPE

57754

2.985,00 DKK.

Datasheet and additional accessories available from actcom.dk/57754

Network Extender SPE



Extend Ethernet via 2-Wire Line

Integrate Ethernet devices via Single Pair Ethernet using existing 2- or stranded cables – for example, use old phone cables without having to install new ones or drill through firewalls.

Integrate remote Ethernet devices

You can connect remote equipment such as energy management devices, wall boxes, displays, indicators, POS systems, and other devices to your network. With the appropriate cable type, the extender acts as a network bridge that can extend the connection up to 1000 meters.

Leadership and connection:

- True plug and play: commissioning without changes in network setup
 - Optionally activated WLAN for info/troubleshooting functions

Power supply:

- External Power Supply: 24–48V DC via plug-in screw terminal, galvanically isolated supply input
- Power over Ethernet (PoE) power supply, PoE Class 1

Net prices for commercial users

Network Extender SPE

55608

3.735,00 DKK

Data sheet and additional accessories available on actcom.dk/55608



Fig. shows #55211



Whitelist-based firewalls for control cabinets

Isolation of critical systems through segmentation/"islan-ding"
in your network

Firewall Router

- Secure access to isolated components of the customer network
- VPN tunnel between two network locations
- Cryptographically authenticated access extension
- Safe and controlled commissioning of new, unknown island hosts thanks to integrated discovery mode
- Secure remote access via WireGuard® VPN endpoint
- Operating Modes: NAT Router + Standard Router + Static NAT

I/O Function (#55212)

- Remote maintenance and firewall-specific integration
- Actions in automation and process environments

Firewall Bridge

- Segmentation of sensitive network areas without modification

Net Commercial User Pricing

Microwall VPN	55211	3.360,00 DKK.
Microwall IO	55212	4.185,00 DKK.
Microwall Bridge	55411	2.985,00 DKK.
Fix Defined Firewall	55312	4.185,00 DKK.

Datasheet and additional accessories available on actcom.dk/firewalls

rule.box - Node-RED



Fig. shows #58920



Fig. shows #53920

Node-RED Server right out of the box

Node-RED is a graphical development tool based on a simple modular principle – ideal for more complex logic tasks.

- Energy-efficient and reliable execution of created workflows (flows)
- Connecting digital I/Os, serial devices, or USB devices
- Read and control Web IOs, Web thermometers, and communication servers
- Extensive range of installable nodes
- --> Expand processing functions
- --> Connect third-party devices
- Creating non-public nodes is also possible upon request

Applications

- Automation workflows with Node-RED
- Visualization via Node-RED dashboard
- Data storage in the file system, MariaDB and SQLite

IoT service

From individual automation to Industry 4.0 applications, W&T also offers programming services: [Contact us](#) or read wut.de/iot-service

Net Commercial User Pricing

rule.box hub	55920	4.485,00 DKK
rule.box Digital 2xIn, 2xOut	57920	4.485,00 DKK
rule.box RS232/422/485	58920	4.485,00 DKK
rule.box USB	53920	4.485,00 DKK

Data sheets and additional accessories are available from actcom.dk/rulebox

MQTT



Fully equipped Mosquitto MQTT broker in your own network

- Communication between network-enabled automation components via the MQTT protocol
- User management – authentication of devices in the network with individual login credentials
- Access Control List (ACL): transfer of subject-specific read and write privileges

Net prices for commercial users

MQTT.box

55990

448,00 €

Datasheet and additional accessories available from actcom.dk/55990

logic.hub



Intuitively configurable IoT control with integrated MQTT Broker & Logic Editor

- Our all-in-one solution provides simple and fast automation without external software.
- Easy-to-use dashboards for clearly visualizing and preparing your data.
- In the logic editor, graphical programming makes it possible to design even complex automation processes intuitively and flexibly.

Net prices for commercial users

logic.hub

50506

4.485,00 DKK.

Data sheets and additional accessories are available from actcom.dk/50506

FTP Data Station



FTP(S), TFTP and Samba Server

- Network interface
- USB 2.0 interface
- Functionality of an FTP(S), TFTP, and Samba Server
- Access to internal memory (750 MB) or a connected, unpartitioned USB storage device
- Power Supply: 12–24V or PoE

Net prices for commercial users

FTP Data Station 3

50543

1.710,00 DKK.

Data sheet and additional accessories available from actcom.dk/50543

transfer.box LAN-USB



USB storage with network connection

- Access via USB as a USB stick
- Access via network as a network drive
- Read and write access to the storage device via both network and USB
- Network access via Samba, FTP(S), SSH, SFTP, and SCP
- Provides pseudo-networking functionality for machines and devices without their own network connection, but with a USB port
- Power Supply: 12–24V or PoE

Net prices for commercial users

transfer.box LAN-USB

53763

3.210,00 DKK.

Datasheet and additional accessories available from actcom.dk/53763

IP Watcher



Simple network monitoring

- Cyclic monitoring of up to 100 IP addresses
- Email alert in case of device failure
- Two switch outputs for other warning devices such as signal lights or buzzers
- Two switching inputs that can be controlled via potential-free contacts
- Power supply: 24–48V DC or PoE

Net prices for commercial users

IP-Watcher 2xIn, 2xOut

57955

2.985,00 DKK.

Data sheets and additional accessories are available from actcom.dk/57955

Ethernet Gigabit-Switch Industry



Slim network expansion in Control Cabinet

- 4x Ethernet 10/100/1000BaseT
- Gigabit network with 24V supply
- Monitor port configurable via DIP switch
- Connection of up to 4 network components with up to 1 Gbit data rate
- Hub mode can be enabled
- 105 x 22 x 75 mm (LxWxH)

Net prices for commercial users

Ethernet Switch Gigabit Industry, 4 Port

55614

1.110,00 DKK.

Data sheet and additional accessories available from actcom.dk/55614

Ethernet Switch Gigabit Industry PoE



Gigabit networking with PoE+

- 5x Ethernet 10/100/1000BaseT
- 4x PoE Plus 802.3af ports, max 30W per port
- Industrial DC Terminal Connection 9–30V DC
- Robust aluminum housing
- 95 x 32 x 115 mm (LxWxH)

Net prices for commercial users

Ethernet Switch Gigabit Industry

55624

1.485,00 DKK.

Data sheets and additional accessories are available from actcom.dk/55624

Com-Server



Serial interfaces in the network

The W&T COM redirector for Windows enables traditional Windows serial applications to establish communication over the network. The system installs virtual COM ports, which act as regular COM ports for the applications. All data exchange with the connected device is now done over the network and a COM server.

When using Box-to-Box mode, the existing network, including any WAN connections, is used as the communication path between serial devices. There is no need for additional control computers or special software, as two Com-Servers automatically send the serial data through the network using a fixed TCP/IP connection.

As a TCP client, you control the connection yourself, while you as a TCP server are contacted via events (event-controlled, possibly with encryption via TLS-PSK). Alternatively, you can use the fast and connectionless UDP protocol. Of course, the latest options for multipoint operations and packet assignment are also available.

Overview Com-Server

Com-Server++

Serial ports for the network in industrial environments

Com-Server PoE 3x Isolated

Connect three serial devices to the network with galvanic isolation

Com-Server LC

Communication with standard operating modes

AT Modem Emulator

Replacement for analogue or ISDN modems

Com-Server Specials

Com-Server with 20mA interface, four ports or as an OEM unit

Further information can be found at actcom.dk



Fig. shows #58665

A serial port for the network

Industrial integration of a serial device into the network via TCP/IP Ethernet

- 1x RS232/RS422/RS485 retractable
- 1x Ethernet 10/100 BaseT
- All standard baudrates up to 230,400 baud
- Power supply 12–48V DC or PoE

Transparent communication

- Windows COM redirector and virtual COM ports
- Box-to-Box
- TCP server sockets from your own applications
- Optionally TLS-PSK encrypted
- OPC Server

Extended protocol support

- New: Modbus/TCP gateway for integration of serial Modbus/RTU slaves
- FTP client/server
- Multipoint mode
- UDP peer
- RELEASE
- Wake-on-LAN

#58669

- With UL approval for the US/California market
- Inc. U.S. Power Supplies
- File number. E254062

Net Commercial User Pricing

Com-Server++	58665	2.385,00 DKK
Com-Server UL	58669	2.910,00 DKK

Data sheets and additional accessories are available from actcom.dk/com

Com-Server PoE 3x Isolated



Three serial ports were quickly integrated into the network

- 3x RS232/RS422/RS485 switchable
- 1x Ethernet 10/100BaseT
- 1kV galvanic isolation for each of the three ports
- All standard baudrates up to 230,400 baud
- Power supply: 12–48V DC or PoE

Net prices for commercial users

Com-Server PoE 3x Isolated

58662

4.635,00 DKK.

Data sheets and additional accessories are available from actcom.dk/58662

Com-Server LC



Economical solution for basic applications

- 1x RS232/RS422/RS485 retractable
- 1x Ethernet 10/100BaseT
- All standard baudrates up to 57,600 baud
- Power supply: 12–48V DC or PoE

Supported operating modes

- Windows COM-redirector
- Box-to-Box
- TCP socket server

Net prices for commercial users

Com-Server LC

58661

1.935,00 DKK

Data sheets and additional accessories are available from actcom.dk/58661

AT Modem



1:1 Replacement for modem links

- Replacing Classic Analog or ISDN Modems with the AT Modem Emulator
- Uses TCP/IP Ethernet for the connection instead of the telephone network
- Standard baud rates from 1,200 to 115,200 baud

Net prices for commercial users

AT-Modem Emulator	58666	3.285,00 DKK.
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Data sheet and additional accessories available from actcom.dk/58666

Com-Server Special



Fig. shows #58034

Additional serial ports for the network

#58664

- 1x 20mA/TTY interface

#58034

- Four-port "desktop terminal" device

#58461

- OEM cards without housing

Net Commercial User Pricing

Com-Server 20mA	58664	2.535,00 DKK
Com-Server Highspeed Office	58034	7.335,00 DKK
Com-Server OEM	58461	2.160,00 DKK

Data sheets and additional accessories are available from actcom.dk/com

USB Server



Fig. shows #53665

USB devices in the network

The W&T USB servers integrate USB devices into the network at an industrial level via TCP/IP Ethernet. USB devices connected to the USB server behave exactly as if they were directly connected to your Windows or Linux PC.

2x full USB ports

- Expandable via external USB hub to support up to 8 USB devices
- Parallel connection possible: PC A to USB 1, PC B to USB 2

1x Ethernet 100/1000 BaseT

- AAutossening / Auto-MDIX

Fully USB 2.0 compatible

- Supports all modes (Control, Bulk, Interrupt, Isochronous)
- Both ports can be loaded with 500mA each

Special Feature #53661 (USB 3.0)

- Super speed up to 5 Gbit/s
- Both ports can be loaded with 500mA each

Full TCP/IP support including routing and DNS

USB redirection for Windows and Linux

systems

- Replacement for missing hardware USB ports
- For virtual environments (VMware, Hyper-V, etc.)
- Line Leader

Possible uses

- Control USB devices regardless of cable length
- Provide USB ports for virtual and physical machines
- Use USB server as dongle server
- Galvanic isolation between PC and USB device

Net Commercial User Pricing

USB Server Megabit 2.0	53665	2.235,00 DKK
USB Server Gigabit 2.0	53663	2.610,00 DKK
USB Server Gigabit 3.0	53661	2.985,00 DKK

Data sheet and additional accessories available from actcom.dk/usb

USB Isolators



Fig. shows #33003

Galvanic Isolation of USB Devices

- 1x USB Type-A connector
- 1x USB connector, type A (#33204 type B, via supplied cable also type A)
- Galvanic isolation between ports
- No additional driver required
- #33003: full USB 2.0 support (low, full, and high speed)
- #33001, #33204: Low Speed & Full Speed

Net Commercial User Pricing

USB Isolator 1kV	33001	885,00 DKK
USB Isolator 2kV Hi-Speed	33003	1.260,00 DKK
USB Isolator 4kV	33204	1.635,00 DKK

Data sheets and additional accessories are available from actcom.dk/usbsortiment

USB Hubs



Fig. shows #33603

Multiple USB devices on one USB port

#33601: USB 1.0/1.1/2.0

#33603: USB 1.0/1.1/2.0/3.0

1x upstream port (type B)

4x downstream ports (type A)

Noise immunity according to EN 61000-6-2

Multi-TT USB architecture guarantees full speed on all downstream ports, even when different modes are active

Net prices for commercial users

USB Hub Industry	33601	1.335,00 DKK
USB 3.0 Hub Industry	33603	1.485,00 DKK

Data sheets and additional accessories are available from actcom.dk/usbsortiment

USB <> Serial - Interfaces



Fig. shows #38211

Expand PCs with a serial interface via USB

#38211 (USB <> RS232/RS422/RS485 Industry)

- 1x USB connector, type B (incl. type A/B cable)
- 1x RS232/RS422/RS485, 9-pin SUB-D connectors
- Compatible with RS485 2-wire and 4-wire bus systems
- Galvanic isolation 1kV DC including surge protection
- Solution for Windows, Linux, and Mac environments
- Baud rate: 300–115,200 baud
- No additional power supply required

#34211 (USB <> 20mA Industry)

- 1x USB connector, type B (incl. type A/B cable)
- 1x 20mA, 9-pin SUB-D connector (active or passive)
- Active/passive can be adjusted separately for transmit and receive loops
- Galvanic isolation 1kV DC including surge protection
- Solution for Windows, Linux, and Mac environments
- Optional full- and half-duplex operation with echo suppression
- Baud rate: 300–19,200 baud
- No additional power supply required



Fig. shows #38011

#38011 (USB <> RS232 Interface Cable 2)

- 1x USB Type-A connector
- 1x RS232, 9-pin SUB-D connector
- Cable length 2m
- Software compatible with #38211 USB industrial interface
- Baud rate: 300–1M baud

Net Commercial User Pricing

USB <> RS232 Interface Cable 2	38011	412,50 DKK
USB <> RS232/RS422/RS485 Industry	38211	1.260,00 DKK
USB <> 20mA Industry	34211	1.260,00 DKK

Further information can be found at actcom.dk/interfaces

Serial <> Serial - Interfaces



Fig. shows #86201

Connect serial interfaces

Industry (#86201, #86203, #84201, #64201)

- 9-pin SUB-D connector
- Galvanic isolation between ports
- External Supply: 12–24V AC/DC
- No adjustment of transmission parameters required
- For 20mA (#84201 and #64201): active/passive operation can be adjusted separately for both loops

Compact (#86000, #84001)

- 25-pin SUB-D connector
- Optional Adapter Cable #11574 with 9-pin connector
- Convenient in-line adapter solution



Fig. shows #86000

Interface Cable S5 RS232 <> 20mA, 4.0kV isolated (#84004)

- 1x RS232, 9-pin SUB-D socket
- 1x 20mA (passive), 15-pin SUB-D connector
- Galvanic isolation with 4 kV isolation voltage
- Insulator integrated into the connection cable
- No power supply required

Net Commercial User Pricing

RS232 <> RS422/RS485 Compact	86000	1.110,00 DKK
RS232 <> RS422/RS485 Industry	86201	1.260,00 DKK
RS232 <> RS422/RS485 Industry with surge protection	86203	1.635,00 DKK
RS232 <> 20mA Compact	84001	1.110,00 DKK
RS232 <> 20mA Industry	84201	1.260,00 DKK
Interface Cable S5 RS232 <> 20mA, 4.0kV isoliert	84004	1.110,00 DKK
RS422/RS485 <> 20mA Industry	64201	1.260,00 DKK

Further information can be found at actcom.dk/interfaces

Serial Isolators



Fig. shows #88205

Galvanic isolation of serial data connections

RS232 Industry (#88205)

- 2x RS232 interfaces
- Baud rate up to 115,200 baud
- Maximum distance 50 m
- 105 x 22 x 75 mm (LxWxH)

RS422/RS485 Industry (#66201, #66203)

- 2x RS422/485 interfaces, switchable
- High transmission speeds up to 3 Mbaud
- Automatic control in RS485 mode
- Switchable termination network for RS485 operation
- #66203: Integrated surge protection (limits differential voltage via Transil diodes)
- 105 x 22 x 75 mm (LxWxH)

Plugs (#88001, #88004)

- 2x RS232 ports
- Ensure RS232 transmission over medium distances
- Supported signals: Rx/D, Tx/D
- #88004: + RTS, CTS, DSR, DTR
- Optional Adapter Cable #11574 with 9-pin connector



Fig. shows #88001

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Net Commercial User Pricing

RS232 Insulator 1kV	88001	660,00 DKK
RS232 Insulator 4kV	88004	1.285,00 DKK
RS232 Insulator Industry 1kV	88205	1.185,00 DKK
RS422/RS485 Insulator Industry 1kV	66201	1.260,00 DKK
RS422/RS485 Isolator Industry 1kV with surge protection	66203	1.635,00 DKK

Further information can be found at actcom.dk/interfaces

RS232 Line Driver Set



Secure transmission of serial data

- Galvanic isolation between ports
- Reliable transmission of RS232 devices over distances up to 1,200 m
- Transmission speed up to 115,200 baud
- No adjustment of transmission parameters required
- Integrated surge protection

Net prices for commercial users

RS232 Line Driver Set Industry

80201

1.860,00 DKK

Data sheet and additional accessories available from actcom.dk/80201

RS232 Universal Serial Buffer



Fig. shows #88642

Buffering of Serial Data

- 4 MB flash memory
- Data return channel enables connection of bi-directional peripherals
- Independent configuration of interfaces
- Conversion of baud rate, data format, and handshake protocol is possible
- Assembly with RS422, RS485 or 20mA interface modules available on request

Net prices for commercial users

RS232 Universal Serial Buffer

88642

2.535,00 DKK.

Datasheet and additional accessories available from actcom.dk/88642

Serial Switches



Fig. shows #85643

Connecting Serial Devices

#85603 RS232 Multi Computer Adapter

Bidirectional connection of two serial data sources with one peripheral device

#85643 RS232 Universal Serial T-Switch

Connect 3 serial devices with RS232 interfaces

Common traits (#85603, #85643)

- 3x RS232, 9-pin SUB-D connector
- All interfaces can be configured independently
- 105 x 75 x 45 mm (LxWxH)
- Conversion of baud rate, data format, and handshake protocol is possible
- Baud rate up to 115,200 baud
- Data format: 7.8 data bits; No, equal, unequal parity
- Flow control: hardware handshake or XON/XOFF protocol

Operating Modes

- Switch via control sequences
- Timed switching with adjustable switching time



Fig. shows #85210

#85210 RS232 T-Box

- 3x RS232, 25-pin SUB-D connector
- No power supply required

Net prices for business users

RS232 T-Box	85210	735,00 DKK
RS232 Multi Computer Adapter	85603	1.635,00 DKK
RS232 Universal Serial T-Switch	85643	4.285,00 DKK

Further information can be found at actcom.dk/interfaces

Plastic Fiber Optic Interfaces



Fig. shows #81009

Radiation-free and resistant to interference

The use of plastic cables for optical fiber (POF) enables fully isolated connections of serial devices. Thanks to the patented fiber optic connector, installation is faster than any copper cable:

- Potential separation
- Surge protection
- Distances of 5–80 m

Dongle Interface (#81009, #81029, #81025)

- SUB-D connector housing
- Power supply via serial interfaces

Industry (#81201, #61201, #11201)

- Plastic housing for DIN rail mounting 105 x 22 x 75 mm (LxWxH)
- External supply 12–24V DC

Duplex cable for two-way data transfer

- 980 μm PMMA step-index fiber
- Damping: type. 0.14 dB/m @650 nm



Fig. shows #81201

Net Commercial User Pricing

Fiber Optic <> RS232 with 9-pin SUB-D socket	81009	885,00 DKK
Low-Power: Fiber Optic <> RS232 with 9-pin SUB-D socket	81029	885,00 DKK
Fiber Optic <> RS232 with 25-pin SUB-D socket	81025	1285,00 DKK
Fiber Optic <> RS232 Industry	81201	1.260,00 DKK
Fiber Optic <> RS422/485 Industry	61201	1.260,00 DKK
Fiber Optic Repeater Industry	11201	1.260,00 DKK
Cables		
Duplex Plastic Fiber Optic Cable Per Meter	81100	26,25 DKK
Duplex Plastic Fiber Optic Cable Drum 500m	81500	5.835,00 DKK

Further information can be found at actcom.dk/interfaces

Serial Interfaces with Fiber Optic Connection



Fig. shows #61210

Network interfaces via fiber optic

Universal fiber optic interface

- 1x singlemode/multimode fiber optic
- Galvanic isolation at virtually any level between connected devices
- Galvanically isolated power supply input
- Interference-free transmission up to 20 km
- Supported signals: Rx/D, Tx/D
- SC Connector
- Fiber Optic Medium:
- Singlemode fiber 9/125 μm
- Multimode fiber 50/125 μm , 62.5/125 μm

Fig. shows #81215



Fiber Optic Interface

- 1x multimode fiber optics
- Galvanic isolation at virtually any level between connected devices
- Interference-free transmission over distances up to 3.8 km
- Galvanically isolated power supply input
- ST Connector
- Fiber Optic Medium:
- Multimode fiber 50/125 μm , 62.5/125 μm

Net Commercial User Pricing

Universal Fiber Optic Interface RS232/RS422/RS485	81215	4.285,00 DKK
Universal Fiber Optic Interface 20mA	41215	4.285,00 DKK
Fiber Optic Interface ST <> RS232	81210	1.635,00 DKK
Fiber Optic Interface ST <> RS232 with Handshake	81211	4.285,00 DKK
Fiber Optic Interface ST <> RS422/RS485	61210	1.635,00 DKK
Fiber Optic Interface ST <> 20mA	41210	1.635,00 DKK
Fiber Optic Bus Interface ST <> RS485	65210	1.635,00 DKK

Further information can be found at actcom.dk/LWL

Digital I/O Interfaces for Fiber Optic



Fig. shows #17633

Reliable transmission of switching signals

- 2 or 8 digital outputs (FET, short-circuit proof, 8–30V/0.5A)
- 2 or 8 digital inputs (reverse polarity protected)
- Interference-free transmission of 4 or 16 I/O signals over 3,800 m (multimode) or 20 km (single mode)
- Configurable output behavior in the case of fiber optic cable
- Interruption
- Consists of two converters – a pair
- Particularly suitable for use in lightning-exposed environments
- No firmware risk

Compatible fiber optic media:

Multimode fiber optic (ST connector)

- Multimode fiber: 50/125 μm , 62.5/125 μm
- Wavelength: 820 nm

Single-mode fiber optics (SC connectors)

- Duplex singlemode fiber 9/125 μm
- Wavelength 1310 nm



Fig. shows #17634
Consists of 2 units

Net Commercial User Pricing

Fiber Optic Digital I/O Extender Set 2In/2Out Multimode ST	17633	4.185,00 DKK
Fiber Optic Digital I/O Extender Set 8In/8Out Multimode ST	17634	8.660,00 DKK
Fiber Optic Digital I/O Extender Set 8In/8Out Singlemode SC	17635	9.735,00 DKK

Further information can be found at actcom.dk/interfaces

PCI Express



• Fig. shows #13641

Two Ports with Galvanic Isolation

- Expanding a PC with two independent serial interfaces
- Galvanic isolation between the ports (isolation voltage: 1kV DC)
- For 32-bit PCIe bus interface
- UART with 128-byte FIFO and DMA functionality to reduce CPU load
- 95 x 120 mm (Width x H)

Net Commercial User Pricing

PCI Express Baseboard (TTL)	13041	1.485,00 DKK
PCI Express Card 2xRS232/RS422/RS485, 1kV isolated	13641	1.860,00 DKK
PCI Express Card 2x20mA, 1kV isolated	13441	1.860,00 DKK

Data sheet and additional accessories available from actcom.dk/pci

Standard PCI



Fig. shows #13621

Two Additional ports for your PC

- 2 serial interfaces with 1 kV galvanic isolation
- For 32-bit PCI bus interface
- Dual UART PI7C8952 with 128-byte FIFO
- 134 x 120 mm (WxH)

Net Commercial User Pricing

PCI Baseboard (TTL)	13021	1.410,00 DKK
PCI Card 2x20mA, 1kV isolated	13421	1.785,00 DKK
PCI Card 2xRS232/RS422/RS485, 1kV isolated	13621	1.785,00 DKK

Datasheet and additional accessories available on actcom.dk/pci

Low-profile PCI



Fig. shows #13610

A door with galvanic isolation

- Expansion of a PC with 1x serial port with galvanic isolation between PC and port
- Plus 3x serial TTL interfaces without galvanic isolation
- Reduced dimensions make it easy to use in low profile
- Systems 134 x 80 mm (W x H)

Net Commercial User Pricing

Low Profile PCI Card 1x20mA, 1kV isolated	13410	1.560,00 DKK
Low Profile PCI Card 1xRS232/RS422/RS485, 1kV isolated	13610	1.560,00 DKK

Data sheet and additional accessories available from actcom.dk/pci

ISA



Fig. shows #13802

Two additional ports for Legacy PCs

- Extending a long-life ISA PC with two serial interfaces
- For 16-bit ISA bus interface
- No additional driver software required
- Manual configuration via DIP switch
- 145 x 120 mm (WxH)

Net Commercial User Pricing

ISA Card 2xRS232 without galvanic isolation	13801	1.410,00 DKK
ISA Baseboard (TTL)	13001	1.560,00 DKK
ISA Card 2x20mA, 1kV isolated	13802	1.785,00 DKK
ISA Card 2x20mA, 1kV isolated	13401	1.935,00 DKK
ISA Card 2xRS422/RS485, 1kV isolated	13601	1.935,00 DKK

Data sheets and additional accessories can be viewed at actcom.dk/isa

Accessories

for Web-IO Digital

Coupling relay 1x changeover 230V	57015	165,00 DKK
Coupling relay 2x changeover 230V	57016	165,00 DKK

Serial cables and adapters

PC/PC RS232 cable	11992	74,25 DKK
RS232 extension, 9-pin plug	11952	74,25 DKK
RS232 extension, 25-pin plug	11982	74,25 DKK
DB9F connection cable, left-angled	11902	131,25 DKK
DB9F connection cable, right-angled	11903	131,25 DKK
RS485 screw terminal (RS485-DB9 adapter)	11909	232,50 DKK
9-pin adapter set for insulators	11573	157,50 DKK
9-pin adapter cable for compact interfaces	11574	93,75 DKK

Connectors and Sockets

9-pin SUB-D socket, solder connection	11904	74,25 DKK
9-pin SUB-D plug, solder connection	11906	74,25 DKK
9-pin SUB-D socket, screw connection	11905	157,50 DKK
9-pin SUB-D plug, screw connection	11907	157,50 DKK

Fiber optic cables for ST interfaces Patch

cable ST/ST, 1m, 50/125µm	81901	120,00 DKK
Patch cable ST/ST, 2m, 50/125µm	81902	157,50 DKK
Patch cable ST/ST, 5m, 50/125µm	81905	195,00 DKK
Patch cable ST/ST, 10m, 50/125µm	81910	278,00 DKK
Patch cable ST/ST, 15m, 50/125µm	81915	315,00 DKK

Additional accessories are available from actcom.dk/tilbehør

Accessories

DIN Rail Power Supplies

Power supply for DIN rail, 24V/630mA DC	11080	247,50 DKK
Power supply for DIN rail, 24V/2.5A DC	11081	412,50 DKK
Power supply for DIN rail, 24V/3.83A DC	11079	577,50 DKK
Power supply for DIN rail, 12V/5.0A DC	11086	487,50 DKK
Power supply for DIN rail, 48V/0.83A DC	11089	412,50 DKK

Plug Power Supplies

Plug power supply, 24V/500mA DC with Euro plug	11021	157,50 DKK
Plug power supply, 24V/750mA DC with Euro plug	11025	247,50 DKK
Plug power supply, 24V/750mA DC with US plug	11027	247,50 DKK
Plug power supply, 24V/750mA DC with Euro, US & UK plug	11026	285,00 DKK

IP wall enclosure and accessories

Wall enclosure, protection class IP66/IP67	11120	405,00 DKK
Cable gland, 2–5mm Ø, M12, set of 5	11130	61,50 DKK
Cable gland, 4–8mm Ø, M16, set of 5	11131	69,00 DKK
Cable gland, 6–12mm Ø, M20, set of 5	11132	83,25 DKK
Cable gland, 13–18mm Ø, M25, set of 5	11133	105,75 DKK
M25 gland for network cable, 1 piece	11134	83,25 DKK

Mounting accessories for DIN rail W&T devices

Mounting bracket for wall installation	58812	84,00 DKK
19° DIN rail	58813	157,50 DKK
90° swivel adapter for DIN rail	58815	292,50 DKK

Additional accessories can be seen on actcom.dk/tilbehør

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