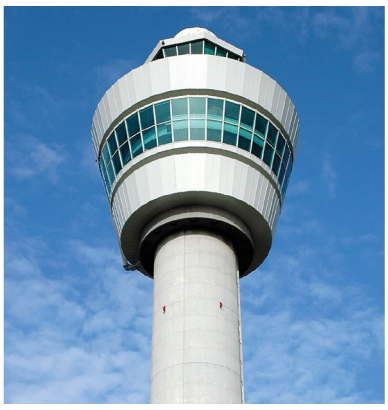
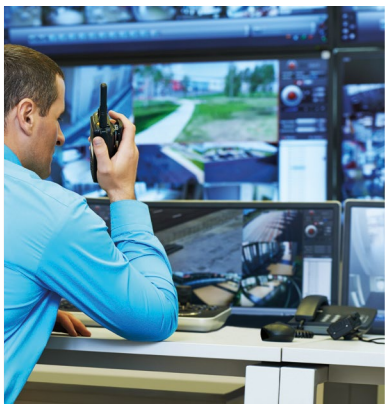
# RemoteAccess-CPU

**RemoteAccess-CPU**
Integration of virtual sources
into the KVM matrix installation

**Catalogue V1.0**


G&D IF IT'S KVM


# G&D IF IT'S KVM

Guntermann & Drunck is regarded as a leading manufacturer of KVM equipment used in control rooms in air traffic control, broadcast studios, on ships and to monitor industrial processes.

With a powerful portfolio consisting of KVM extenders, switches and matrix switches, G&D's users get real added value. G&D provides the broadest KVM product portfolio at the market. Even with different features, all G&D products are compatible and can be combined. Our KVM solutions optimise the application of IT equipment and improve the working conditions for humans and computers.

No matter where KVM devices are installed, there's always one main requirement - robust, reliable, user-friendly and easy to operate KVM systems that can be adapted to future requirements and grow with your demands.

By short lines of communication G&D is able to solve challenging requirements and tailor systems to our customers' needs. We keep direct contact to our customers and are personally available. We are proactive and always keep an eye on the trends in the industry. Functionalities required by our customers are quickly implemented into our products. Our success can only be measured with our customers' satisfaction.

Trust in G&D for your optimal KVM solution.

**With the RemoteAccess-CPU, you integrate virtual machines into your KVM matrix installation**

With the RemoteAccess-CPU and RemoteAccess-IP-CPU you benefit from hands-on KVM functions even in hybrid systems.

Cloud computing and virtualisation are becoming increasingly important and we will see more hybrid infrastructures in the future.

But how can you link such hybrid structures as flexibly as possible? How do you standardize their use so that operators can handle them easily, efficiently and in line with their needs? The RemoteAccess-CPU provides the answers to these questions.


RemoteAccess-CPU

## Operating principle

The RemoteAccess-CPU lets you seamlessly integrate virtual machines into KVM matrix installations. The modules establish a connection between matrix systems and computers or virtual machines, which can be remotely accessed via network protocols (RDP, VNC and SSH). This way, hybrid systems with real and virtual infrastructure can be optimally implemented.

After appropriate configuration, you can access any number of virtual sources and computers accessible via network protocols directly via KVM matrix systems – uniformly and exactly as you would access computers under your desk.

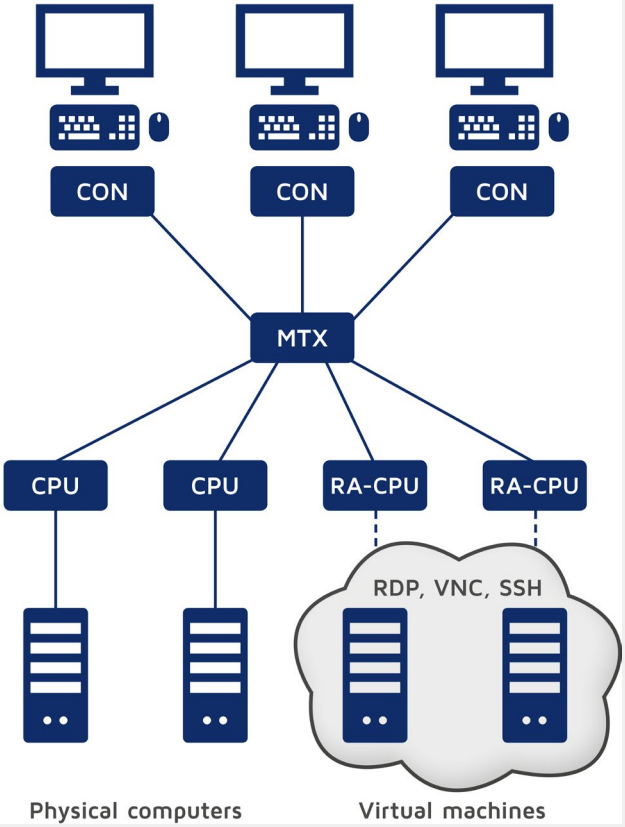
With the RemoteAccess-CPU, you get an excellent solution – combined with all the comfort G&D's KVM system has to offer. Simply select the desired source from a standardised select menu (target list) on the on-screen display – regardless of whether the computer is available in the server room, via network protocol or in the cloud.

The KVM matrix controls the logic and takes over user administration. Since G&D attach great importance to security, all connection data is forwarded in encrypted form.

**Integrated thin client functionality and multi user access**

The RemoteAccess-CPU is equipped with a powerful, reliable industrial board and offers a platform with integrated thin client functionality. Therefore, you don't need a separate thin client – and the solution is highly integrative when it comes to establishing connections. Currently, the network protocols RDP, VNC and SSH are supported. Support of further protocols will follow soon.

Via G&D's KVM system, multiple operators can use the same RemoteAccess-CPU to simultaneously connect and operate the same virtual machine.



# Highlights

**Device**

- Interface to KVM matrix or KVM network transmission for KVM-over-IP
- Supported transmission length to KVM matrix or between two active network components using KVM-over-IP: up to 140 m/100 m for CAT variants, up to 10,000 m when using optical fibers
- Gigabit Ethernet network interface
- Service interface (mini USB)
- Thin client functionality exactly tailored to a G&D matrix
- External main power supply (12VDC)
- Can also be operated via MultiPower-6-NT that supplies 1.6 A per socket
- Ident LED to quickly find devices in complex installations
- Well-proven monitoring technology for monitoring various device parameters
- Housing: Anodised aluminium
- 3-year warranty, can be expanded to 6 years

**Signals**

- Encrypted video, keyboard, mouse and control data
- Support of embedded audio
- Generic USB HID support

**Transmission**

- Compressed transmission, pixel perfect, lossless video quality, ideal hand-eye coordination
- Supported network protocols: RDP, VNC, SSH (support for other protocols will follow soon)

**Video**

- Resolution with pixel rate between 25 MPixel/s and 330 MPixel/s
- Pixel coding: RGB 4:4:4 with 24 bpp/8bpc

Resolutions:

- 2560 x 1600 @ 60 Hz
- 2560 x 1440 @ 60 Hz
- 1920 x 1200 @ 60 Hz
- 1920 x 1080 @ 60 Hz
- 1600 x 1200 @ 60 Hz
- 1680 x 1050 @ 60 Hz
- 1280 x 1024 @ 60 Hz
- 1024 x 768 @ 60 Hz

**System update**

- Configuration and system update via Config Panel 21 (HTML 5, Java-free, optimised operation)

# Operation

- Enables the operation of a virtual source or computer that can be accessed remotely via network protocols via the console module of a digital matrix or a KVM-over-IP matrix
- Integration of any number of virtual sources into the KVM matrix including automatised logins (single sign on via matrix on-screen display)
- Operation (switching between channels, push-get, etc.) via on-screen display
- Selection of virtual and physical sources within the matrix environment via on-screen display's select menu (target list)
- Hands-on KVM functions such as CrossDisplay-Switching
- Multi user access: multiple operators can simultaneously access the same virtual source

## TECHNICAL DATA

## General features of the RemoteAccess-CPU

| | |
|---|---|
| **Video** | |
| Supported resolutions: | 2560 x 1600 @ 60 Hz / VESA CVT-RB<br>2560 x 1440 @ 60 Hz / VESA CVT-RB<br>1920 x 1200 @ 60 Hz / VESA CVT-RB<br>1920 x 1080 @ 60 Hz / CTA-861-D<br>1600 x 1200 @ 60 Hz / VESA DMT<br>1680 x 1050 @ 60 Hz / VESA CVT<br>1280 x 1024 @ 60 Hz / VESA DMT<br>1024 x 768 @ 60 Hz / VESA DMT |
| Colour depth: | 24 bits |
| Video bandwidth: | 25 to 330 MP/s |
| **Audio > DisplayPort Digital** | |
| Transmission type: | 2-channel LPCM, stereo |
| Resolutions: | 16/20/24 bit |
| Refresh rates: | up to 48 kHz |
| **Data transmission to terminal servers** | |
| Interface: | 1 x RJ45 socket |
| Data rates: | 10 MBit/s, 100 MBit/s, 1000 MBit/s |
| Supported protocols: | SSH, RDP, VNC |
| **Power supply** | |
| Type: | Portable power pack (12V/2A) |
| Connection: | 1 x Mini DIN 4 socket |
| Power consumption: | max. 1,2 A |
| **Housing** | |
| Material: | Anodised aluminium |
| Dimensions (W x H x D): | 105 x 26 x 184 mm |
| Weight: | approx. 400 g |
| **Operating environment** | |
| Temperature: | +5°C to +45°C |
| Air humidity: | 20% to 80%, non-condensing |
| **Storage environment** | |
| Temperature: | -20°C to +55°C |
| Air humidity: | 15% to 85%, non-condensing |
| **Conformity** | |
| | CE, EAC, RoHS |

# TECHNICAL DATA

## Specific features RemoteAccess-CPU

| Data transmission to matrix switch | |
|---|---|
| Interface: | 1 x RJ45 socket |
| Transmission length: | max. 140 meters |

## Specific features RemoteAccess-CPU-Fiber

| Data transmission to matrix switch | |
|---|---|
| Interface: | 1 x LC duplex socket |
| Transmission length: | RemoteAccess-CPU-Fiber(M)<br>max. 100 meters (62,5µ/125µ OM1)<br>max. 200 meters (50µ/125µ OM2)<br>max. 400 meters (50µ/125µ OM3) |
| | RemoteAccess-CPU-Fiber(S)<br>max. 5.000 meters (9µ/125µ OS1) |
| | RemoteAccess-CPU-Fiber(S+)<br>max. 10.000 meters (9µ/125µ OS1) |

## Specific features RemoteAccess-IP-CPU

| Data transmission to counterpart station | |
|---|---|
| Interface: | 1 x RJ45 socket<br>(1 GBit/s - IEEE 802.3ab) |
| Transmission length: | max. 100 meters (CAT 5e, CAT 6a) |

## Specific features RemoteAccess-IP-CPU-Fiber

| Data transmission to counterpart station | |
|---|---|
| Interface: | 1 x LC duplex socket |
| Transmission length: | RemoteAccess-IP-CPU-Fiber(M)<br>max. 220 meters (62,5µ/125µ 160MHz*km)<br>max. 275 meters (62,5µ/125µ 200MHz*km OM1)<br>max. 500 meters (50µ/125µ 400MHz*km OM2)<br>max. 550 meters (50µ/125µ 500MHz*km OM2) |
| | RemoteAccess-IP-CPU-Fiber(S)<br>max. 10.000 meters (9µ/125µ 500MHz*km OS1) |

## List of item numbers RemoteAccess-CPU

| Item no. | Description |
|---|---|
| A2320342 | RemoteAccess-CPU Basic |
| A2320343 | RemoteAccess-CPU incl. PowerPack |
| A2320350 | RemoteAccess-CPU-Fiber(M) Basic |
| A2320351 | RemoteAccess-CPU-Fiber(M) incl. PowerPack |
| A2320352 | RemoteAccess-CPU-Fiber(S) Basic |
| A2320353 | RemoteAccess-CPU-Fiber(S) incl. PowerPack |
| A2320354 | RemoteAccess-CPU-Fiber(S+) Basic |
| A2320355 | RemoteAccess-CPU-Fiber(S+) incl. PowerPack |

## List of item numbers RemoteAccess-IP-CPU

| Item no. | Description |
|---|---|
| A2320375 | RemoteAccess-IP-CPU Basic |
| A2320376 | RemoteAccess-IP-CPU incl. PowerPack |
| A2320379 | RemoteAccess-IP-CPU-Fiber(M) Basic |
| A2320380 | RemoteAccess-IP-CPU-Fiber(M) incl. PowerPack |
| A2320381 | RemoteAccess-IP-CPU-Fiber(S) Basic |
| A2320382 | RemoteAccess-IP-CPU-Fiber(S) incl. PowerPack |

## ABBREVIATIONS

CPU = Computer module
PC = Computer module
CON = Console module
REM = Console module

MC2 = Multi-channel 2
MC3 = Multi-channel 3
MC4 = Multi-channel 4

M = Multimode
S = Singlemode
S+ = Singlemode+

RM = For assembly in a 19“ rack Desktop device
DT = Desktop device
DP = DisplayPort™

A = Audio
R = RS232
U = Integr. USB 2.0 up to 16 MBit/s
U2 = Transp. USB 2.0 Hi-Speed 480 Mbit/s
D = Delay

## EQUIPMENT FEATURES

- Audio
- CAT cable
- Compact setup
- CrossDisplay-Switching
- Delay
- DisplayPort™
- DVI dual link video
- DVI single link video
- Expansion
- Fiber optics
- High Definition Multimedia Interface
- Keyboard/Mouse
- KVM-over-IP™
- Media control
- Mix & Match
- Modular setup
- Monitoring
- Multi user
- Multi-channel video
- Network connection
- Power switching
- Remote IP
- RS232
- Screen-Freeze
- Separate local/remote user
- Single user
- USB 2.0
- USB 3.0
- VGA video
- Web Interface

## COLOUR CATEGORY

- KVM extenders
- KVM switches
- Analog KVM matrix systems
- Digital KVM matrix systems
- Digital signage
- KVM add-ons
- Monitoring & SNMP
- KVM MultiPower
- Accessories

G&D
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## From professionals to professionals:

Trust in our professional solutions - from planning through to aftersales support.


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