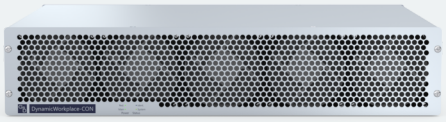
DYNAMICWORKPLACE-CON-8F(S)-ARU

Video processing, Article number A1120381



Front



Back

The DynamicWorkplace-CON is a powerful multiviewer console module with 4 or 8 KVM inputs (channels) and 4 video outputs. It is connected to a G&D matrix switch via CAT or fiber ports and enables the simultaneous display and operation of multiple sources via KVM computer modules on one or more monitors. The arrangement and size of the windows can be flexibly adjusted within the display area, enabling an efficient and ergonomic workplace design with just one mouse and keyboard. In addition, the DynamicWorkplace-CON supports the transmission of audio signals and offers a specially developed, intuitive user interface. This versatile solution can be integrated into existing digital G&D matrix systems.

SCOPE OF DELIVERY

Quantity	Description	Article number
1	PowerCable-2 Standard cable 2m	A6300057
1	19" RM-Set-436-2RU	A7000008
1	Safety instructions flyer - FCC class B	A9100371

DETAILS

VIDEO

- bluedec™ – advanced developed multi-stage compression for best video quality and practically latency-free transmission. This method enables pixel-perfect video transmission with efficient bandwidth use.
- The 4 video outputs of the DynamicWorkplace-CON form a contiguous display area across all monitors (4 x 4K)
- No (additional) licences are required to use all video outputs.
- Resolution up to
  5120 × 2160 @ 50 Hz,
  5120 × 1440 @ 60 Hz,
  4096 × 2160 @ 60 Hz,
  2560 × 1440 @ 144 Hz,
  1920 × 1080 @ 240 Hz

SIGNALS

- Embedded stereo audio (Digital, 2 channel LPCM)
- Transparent audio signals (stereo, analog)
- Transparent RS232 (max. 115,200 bps)
- Embedded USB 2.0 with Full Speed, transparent, all USB classes
- GenericUSB support for USB classes HID (Human Interface Device), SmartCard and mass storage
- The product allows the use of a GenericUSB device via a console module. For this, both the used console module and the used computer module must support the use of a GenericUSB device.

TRANSMISSION

- The transmission distance is up to 5,000 meters over fiber singlemode optics, incl. transmission module(s)/SFP transceiver(s)

DEVICE

- Improved security through physical separation between workplaces and computers
- Internal power pack for main power supply
- The device can only be used in combination with a KVM matrix switch and is only compatible with models from the ControlCenter-Digital or ControlCenter-Compact series

WARRANTY

- A 3-year, free of charge product guarantee
- For an additional fee guarantee extension possible

FEATURES

DEVICE

- Users can switch between different sources almost in real-time, without noticing interruptions or delays
- Very low noise emission

SECURITY FEATURES

- Bootloader, operating system, and firmware form a "Trusted Computing Platform" with automatic integrity checks during system startup
- DynamicWorkplace-CONs do not store security-relevant information such as login credentials, which could be extracted in the event of device loss
- Freeze function: If the video signal is lost, the last displayed image is frozen and highlighted with a colored frame and timer
- Monitoring of system states such as status, power supply, temperature and computer modules and console modules are monitored as well
- Each monitoring value can be enabled individually; critical states raise an alarm, which authorized users can acknowledge to downgrade it to warning level
- Syslog logging locally and to up to two servers, via TCP or UDP, with configurable port, eight severity levels per the syslog standard and ISO 8601 timestamps
- Logged events include user logins, failed login attempts, changes to user rights, connections to remote targets and failed backups
- SNMP agent supporting SNMPv2c and SNMPv3; for SNMPv3, authentication via SHA-1 through SHA-512, encryption with AES128, AES192 or AES256, and security levels up to authPriv
- Access to the SNMP agent can be restricted to defined source IP addresses or network segments (IPv4 and IPv6)
- SNMP notifications to multiple receivers, sent either as traps or as acknowledged informs, with a configurable severity threshold
- Redundant network interface
- 2-Factor-Authentication (2FA) – is available via the KVM matrix system with DynamicWorkplace-CON and enhances security by requiring a second, possession-based factor during user authentication:
  - The traditional password authentication is combined with a time-limited, single-use code (Time-Based-One-Time-Password - TOTP)
  - You can choose between using the internal authentication server provided in the device or an external directory service
  - Authenticator apps or hardware token can be used
  - This additional layer of protection prevents unauthorized access and ensures the highest level of security, particularly in sensitive IT environments

OPERATION FEATURES

- Configuration and update via the multilingual HTML5 web interface “Config Panel 21” (Java-free)
- Simultaneous display of available KVM inputs (transmission channels) in up to 16 windows, with each window showing either the original channel or a mirrored view.
- Intuitive operation and arrangement of windows, computer modules and presets or layouts via a window manager (graphical user interface).
- The windows on the display area can be arranged either in fixed grids or freely
- The windows can be scaled proportionally
- The windows offer direct user interaction via their title bar
- Different operating modes:
  - Free mode: The windows can be moved, scaled and arranged freely - without a fixed grid, for maximum flexibility
  - Swap mode: A window/source can swap places with another window/source using the mouse to quickly highlight important content without changing the layout/grid
- Integration into the existing matrix remote control API for controlling the device
- The image output can be rotated in 90° steps, whereby this setting can be made individually for each monitor
- The exclusive signals can be received and sent flexibly between different channels at runtime. Allocation is either static, based on a window defined by the user, or automatic. In automatic mode, the signal is switched to the channel currently in the operating focus after a short delay

EXTENSIONS

DEVICE

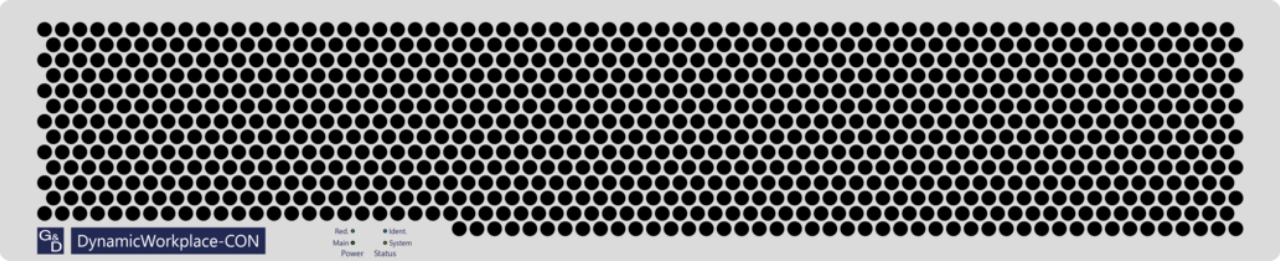
- External power supply via external 12V power pack

SYSTEM EXTENSION

- Transm. Redundancy Option (comparable to UC/CON-2; in preparation): Devices are prepared for transmission redundancy without additional hardware and can be activated via software feature key.
- Support for all common video signals, thanks to a wide selection of matrix-compatible KVM extenders, which can be integrated as end devices in matrix operation in a “mixed” configuration (Mix & Match). Video transmission is performed using bluedec™ – G&D’s advanced, multi-stage, lossless compression – delivering pixel-perfect, lossless video quality with near-zero latency.

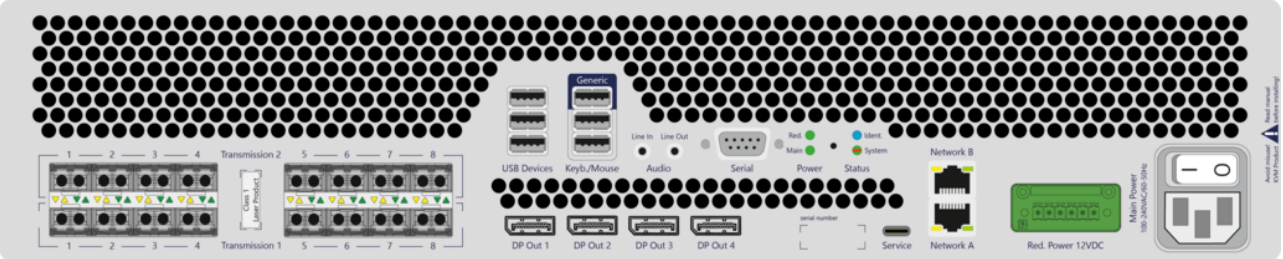
INTERFACES

FRONT



Aperture designation	Design	Description
No interfaces in use		

BACK



Aperture designation	Design	Description
Transmission 1 - 1-8	RJ45 socket	Data transmission to matrix switch (FIBER)
Transmission 2 - 1-8	RJ45 socket	Data transmission to matrix switch redundant (FIBER)
USB Devices	USB-A socket 2.0	Port for USB devices (transparent)
Generic	USB-A socket 2.0	Port for USB devices (Generic)
Keyb./Mouse	USB-A socket 2.0	Port for keyboard and mouse
Line In	Jack socket - 3,5 mm	Port for microphone / audio source
Line Out	Jack socket - 3,5 mm	Port for speaker/headset
Serial	D-Sub9 jack	Port for serial devices
DP Out 1	DisplayPort socket	Port for monitor
DP Out 2	DisplayPort socket	Port for monitor
DP Out 3	DisplayPort socket	Port for monitor
DP Out 4	DisplayPort socket	Port for monitor
Service	USB-C socket	Port for service purposes
Network A	RJ45 socket	Port for IP network
Network B	RJ45 socket	Port for IP network
Red. Power 12VDC	Phoenix clamp Combicon	Power supply DC redundant
Main Power	IEC plug 320 C14	Power supply AC

TECHNICAL DATA

General	Brand	G&D
	Product group	Video processing
	Product Family	DynamicWorkplace-CON
	Country of origin	Germany
	Number of workplaces	1
	Number of sources	8
	KVM matrix system component	Console module (digital)
	Power Supply	Redundancy without load balancing
Input options	USB mouse	yes
	USB keyboard	yes
Transmission	Number of transmission channels	8
	Redundant transmission channels	optional redundant KVM transmission
	Range	5,000 m (9/125µm, OS1)
	Laser class	Class 1
	Type of interface	LC-Duplex
	Wavelength	1,310 nm
	Medium	Fiber SM
	Data rate	2.5 Gbit/s
Video input	Quantity	8

	Format	Digitale Matrix
	Colour depth	24 bit
	Pixel encoding	RGB 4:4:4 (24 bpp / 8 bpc)
	Pixel rate ca.	25 MPixel/s to 600 MPixel/s
	Vertical frequency	24 Hz to 240 Hz
	Horizontal frequency	25 kHz to 295 kHz
	Exemplary resolutions	5120 × 2160 (50 Hz) 5120 × 1440 (60 Hz) 4096 × 2160 (60 Hz) 3840 × 2160 (60 Hz) 2560 × 1600 (60 Hz) 2560 × 1440 (144 Hz) 2048 × 2048 (60 Hz) 1920 × 1200 (60 Hz) 1920 × 1080 (240 Hz) 1920 × 1080 (60 Hz)
	General Notes	Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency.
Video output	Quantity	4
	Format	DisplayPort 1.2 (LBR, HBR, HBR2, SingleStream-Transport (SST))
	Colour depth	24 bit
	Pixel encoding	RGB 4:4:4 (24 bpp / 8 bpc)
	Pixel rate ca.	25 MPixel/s to 600 MPixel/s
	Vertical frequency	24 Hz to 240 Hz
	Horizontal frequency	25 kHz to 295 kHz

	Exemplary resolutions	5120 × 2160 (50 Hz) 5120 × 1440 (60 Hz) 4096 × 2160 (60 Hz) 3840 × 2160 (60 Hz) 2560 × 1600 (60 Hz) 2560 × 1440 (144 Hz) 2048 × 2048 (60 Hz) 1920 × 1200 (60 Hz) 1920 × 1080 (240 Hz) 1920 × 1080 (60 Hz)
	General Notes	Further VESA and CTA standardised resolutions possible within pixel rate and horizontal/vertical frequency.
Audio 1	Transmission type	Stereo 2-channel LPCM
	Resolutions	24 bit 20 bit 16 bit
	Sampling rate	up to 48 kHz
	Audio support	Digital Embedded
Audio 2	Transmission type	Stereo Transparent
	Resolutions	24 bit digital
	Sampling rate	up to 96 kHz
	Bandwidth	22 kHz
	Audio support	Analog
USB 1	Separate USB transmission port	no
	Specification	USB 2.0
	Medium	Embedded

	Transmission rate	max. 16 Mbit/s (app. Full Speed)
	Range	max. 5,000 m
	USB classes	All
USB 2	Separate USB transmission port	no
	Specification	USB 2.0
	GenericUSB support	1 device
	Medium	Embedded
	Transmission rate	max. 25 Mbit/s (Full Speed)
	USB classes	Mass Storage (MSC / UMS) Human Interface Device (HID) SmartCard
Serial	Standard	RS232
	Transparent transmission	yes
	Data rate	max. 115,200 bps
	Signals	TxD RxD DTR DSR RTS CTS DCD
Network	Quantity	2
	Medium	CAT5 CAT6 CAT7

	Data rate	10 Mbit/s 100 Mbit/s 1 Gbit/s
Maintenance	Update via	ConfigPanel (Network)
	Serviceport settings	115200bps (8/N/1)
Housing	Material	Anodised aluminium
	Active cooling (fan)	yes
	Width ca.	436 mm
	Height ca.	88 mm
	Depth ca.	284 mm
	IP protection class	IP20
	Weight ca.	5.12 kg
Operating conditions	Operating environment temperature	5 °C to 45 °C
	Operating air humidity, non-condensing	20 % to 80 %
	Area of application	Indoor use
	Maximum operating altitude above sea level	3,048 m
	Storage environment temperature	-20 °C to 55 °C
	Storage air humidity, non-condensing	15 % to 80 %

	Conformities	CE compliant (see downloads) UKCA compliant (see downloads) FCC compliant (see manual) TAA compliant (see downloads) RoHS compliant (see downloads) WEEE (reg. no. DE30763240) REACH compliant (see downloads)
Power supply 1	Quantity	1
	Type	Internal
	Input voltage	100-240 VAC
	Input frequency	60-50 Hz
	Current consumption	1.55-0.7 A
Power supply 2	Quantity	1
	Type	External
	Input voltage	12 VDC
	Current consumption	11.1 A

ACCESSORY PRODUCTS

Image	Description	Article number
	TypeC-Service-Cable-M/M-2, 2m, USB Type-A / Type-C Cable for system updates and configuration	A6200112
	PowerPack 12 for DWC 12V, Phoenix 1827745 Redundant Power Supply for DynamicWorkplace-CON Series	A4110060
	PowerCable-3 Standard cable 3m Cable to connect the power supply type Germany	A6300066
	PowerCable-5 Standard cable 5m Cable to connect the power supply type Germany	A6300065

MORE VARIANTS

Description	Article number
DynamicWorkplace-CON-4F(S)-ARU Multiviewing console module (2 RU) with 4 inputs to connect a digital matrix switch via fiber singlemode (4K@60Hz), as well as 4 video outputs (4K@60Hz)	A1120385

CONTACT

WE ARE HERE FOR YOU!

If you have any further questions, we are looking forward to advising you on your individual project requirements.

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