

# CCD-IO16-CARD-TRUNK4(M)

KVM matrix systems, Article number A2300096



I/O cards are modular cards for the ControlCenter-Digital with multiple in-/output ports to which you can connect user or computer modules.

## DETAILS

### TRANSMISSION

- The transmission distance is up to 400 meters over fiber multimode optics, incl. transmission module(s)/SFP transceiver(s)

### DEVICE

- Can be placed in one of the I/O slots of the ControlCenter-Digital matrix system
- The I/O-Card-Trunk4 reduces the grid lines required for a matrix grid by combining 4 of the 16 channels on one line.
- For transmission between two matrices, the four ports of an I/O-Card-Trunk4 can be configured independently for a 1:1 direct connection.
- Transmission between two I/O-Card-Trunk is carried by even more powerful components compared to the standard. These components let you use the fourfold of the bandwidth at the same time – thus saving you three quarters of the cabling effort.
- In addition to dedicated connection options, the I/O-Card-Trunk4 is also Ethernet-capable, thus allowing you to use existing network structures. You can even set up KVM matrix installations across locations and large distances if suitable connections are available. Multi-user access from several locations is also possible.

### WARRANTY

- A 3-year, free of charge product guarantee

## TECHNICAL DATA

|                      |                                   |                                                                                                                                                                                                    |
|----------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General              | Product group                     | KVM matrix switches                                                                                                                                                                                |
|                      | Product Family                    | ControlCenter-Digital                                                                                                                                                                              |
|                      | KVM matrix system component       | Central module (digital)                                                                                                                                                                           |
| Transmission         | Number of transmission channels   | 4                                                                                                                                                                                                  |
|                      | Redundant transmission channels   | no redundant KVM transmission                                                                                                                                                                      |
|                      | Range                             | 400 m (50.0/125µm, OM4 - 4700MHz*km)<br>300 m (50.0/125µm, OM3 - 2000MHz*km)<br>82 m (50.0/125µm, OM2 - 500MHz*km)<br>66 m (50.0/125µm)<br>33 m (62.5/125µm, OM1 - 200MHz*km)<br>26 m (62.5/125µm) |
|                      | Laser class                       | Class 1                                                                                                                                                                                            |
|                      | Type of interface                 | LC-Duplex                                                                                                                                                                                          |
|                      | Wavelength                        | 850 nm                                                                                                                                                                                             |
|                      | Medium                            | Fiber MM                                                                                                                                                                                           |
|                      | Data rate                         | 10 Gbit/s                                                                                                                                                                                          |
|                      |                                   |                                                                                                                                                                                                    |
| Maintenance          | Update via                        | ConfigPanel (Network)                                                                                                                                                                              |
|                      | Serviceport settings              | 115200bps (8/N/1)                                                                                                                                                                                  |
| Housing              | Material                          | anodised aluminium                                                                                                                                                                                 |
|                      | IP protection class               | IP20                                                                                                                                                                                               |
| 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 85 %                                                                                                                                                                                                                                                      |
|  | MTBF                                       | 100,000 h at 25°C                                                                                                                                                                                                                                                 |
|  | Conformities                               | CE compliant (see downloads)<br>UKCA compliant (see downloads)<br>FCC compliant (see manual)<br>TAA compliant (see downloads)<br>EAC compliant (see downloads)<br>RoHS compliant (see downloads)<br>WEEE (reg. no. DE30763240)<br>REACH compliant (see downloads) |

## MORE VARIANTS

| Description                                                                                                                                                            | Article number |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>CCD-IO16-Card-CAT card f. CCD 16xCAT</b><br>Input/output module of the ControlCenter-Digital system                                                                 | A2300061       |
| <b>CCD-IO16-Card-Fiber blank without SFP-Transc.</b><br>Input/output module of the ControlCenter-Digital system                                                        | A2300086       |
| <b>CCD-IO16-Card-Fiber(M) card f. CCD 16xFiber(M)</b><br>Input/output module of the ControlCenter-Digital system                                                       | A2300062       |
| <b>CCD-IO16-Card-Fiber(S) card f. CCD 16xFiber(S)</b><br>Input/output module of the ControlCenter-Digital system                                                       | A2300063       |
| <b>CCD-IO16-Card-Fiber(S+) card f. CCD 16xFiber(S+)</b><br>Input/output module of the ControlCenter-Digital system                                                     | A2300078       |
| <b>CCD-IO16-Card-Multi card f. CCD 16xMulti</b><br>Input/output module of the ControlCenter-Digital system                                                             | A2300085       |
| <b>CCD-IO16-Card-Trunk4 blank without SFP-Transc.</b><br>Input/output module of the ControlCenter-Digital system including 4x 10G interfaces - without SFP-Transceiver | A2300098       |
| <b>CCD-IO16-Card-Trunk4(S)</b><br>Input/output module of the ControlCenter-Digital system including 4x 10G interfaces                                                  | A2300097       |

# CONTACT

## WE ARE HERE FOR YOU!

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

### TECHNICAL SALES

Tel.: +49 271 23872-333  
Fax: +49 271 23872-120  
E-Mail: [sales@gdsys.com](mailto:sales@gdsys.com)

### HEADQUARTERS

Guntermann & Drunck GmbH Systementwicklung  
Obere Leimbach 9 | 57074 Siegen | NRW |  
Deutschland

Tel.: +49 271 23872-0  
Fax: +49 271 23872-120  
E-Mail: [sales@gdsys.com](mailto:sales@gdsys.com)

### US OFFICE

G&D North America Inc.  
4540 Kendrick Plaza Drive | Suite 100  
Houston, TX 77032 | United States

Tel.: +1-346-620-4362  
E-Mail: [sales.us@gdsys.com](mailto:sales.us@gdsys.com)

### MIDDLE EAST OFFICE

Guntermann & Drunck GmbH  
Dubai Studio City | DSC Tower  
12th Floor, Office 1208 | Dubai, UAE

Tel.: +971 4 5586178  
E-Mail: [sales.me@gdsys.com](mailto:sales.me@gdsys.com)

### APAC OFFICE

Guntermann & Drunck GmbH  
60 Anson Road #17-01  
Singapore 079914

Tel.: +65 9685 8807  
E-Mail: [sales.apac@gdsys.com](mailto:sales.apac@gdsys.com)