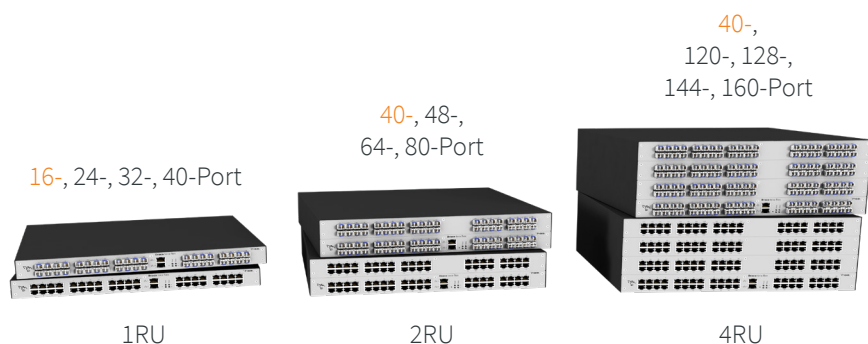


## KVM MATRIX FROM 16 - 160 PORTS



Enterprise features in compact form

Redundant network interface

Multi-lingual management interface

4K60 10-Bit per color 4:4:4 via Cat X &amp; Fiber

Up to 160 ports within only 4 RU

Individual configuration options

Scalability from 40 to 80 or 160 ports

## PRODUCT INFORMATION

The Draco tera flex matrix switching series with its compact size of 1, 2 or 4 RU and up to 160 Flex-Ports is designed to support both small to mid-size applications as well as large ones. With its capability to facilitate 1G and 3G technology within a single frame as well as Cat X and fiber interfaces, it supports modern applications with a mix of 2K and 4K in very economic way. Custom design chassis even allow for future field upgradability scaling a system from 40-Port to 80-Port or even 160-Port completely non-blocking.

**Grid connectivity**

With its 10G grid option Draco tera flex can act as a nice satellite to a core enterprise system using the least amount of infrastructure by building a deployed homogeneous large matrix grid.

**Ease of setup**

By simply connecting the extender to the chassis, the internal application control software will recognize and auto-configure the port as a CPU or CON device. This Flex-Port technology provides enormous time savings for system installers who normally have to pre-configure ports to specific I/O requirements. The system also supports instant switching technology. With incredible speed, switching between sources is glitchfree and instantaneous thus reducing eye strain and annoying video tearing found with other systems.

Where centralized switching of KVM is necessary, the Draco tera flex is the perfect KVM solution. It is especially suited for factory floor automation control systems, production studios, OB Vans as well as command and control environments.

**Compatibility**

Draco tera flex is compatible with all Draco vario extenders. All that needs to be taken care of is correct link speed and interface of the used endpoints and their codec version. Draco tera flex is already prepared for future backward compatibility of Draco vario ultra CON units to Draco vario CPUs.

**Rack mounting**

The matrices are prepared for installation in a 19" rack. Suitable mounting brackets are included in the scope of delivery.

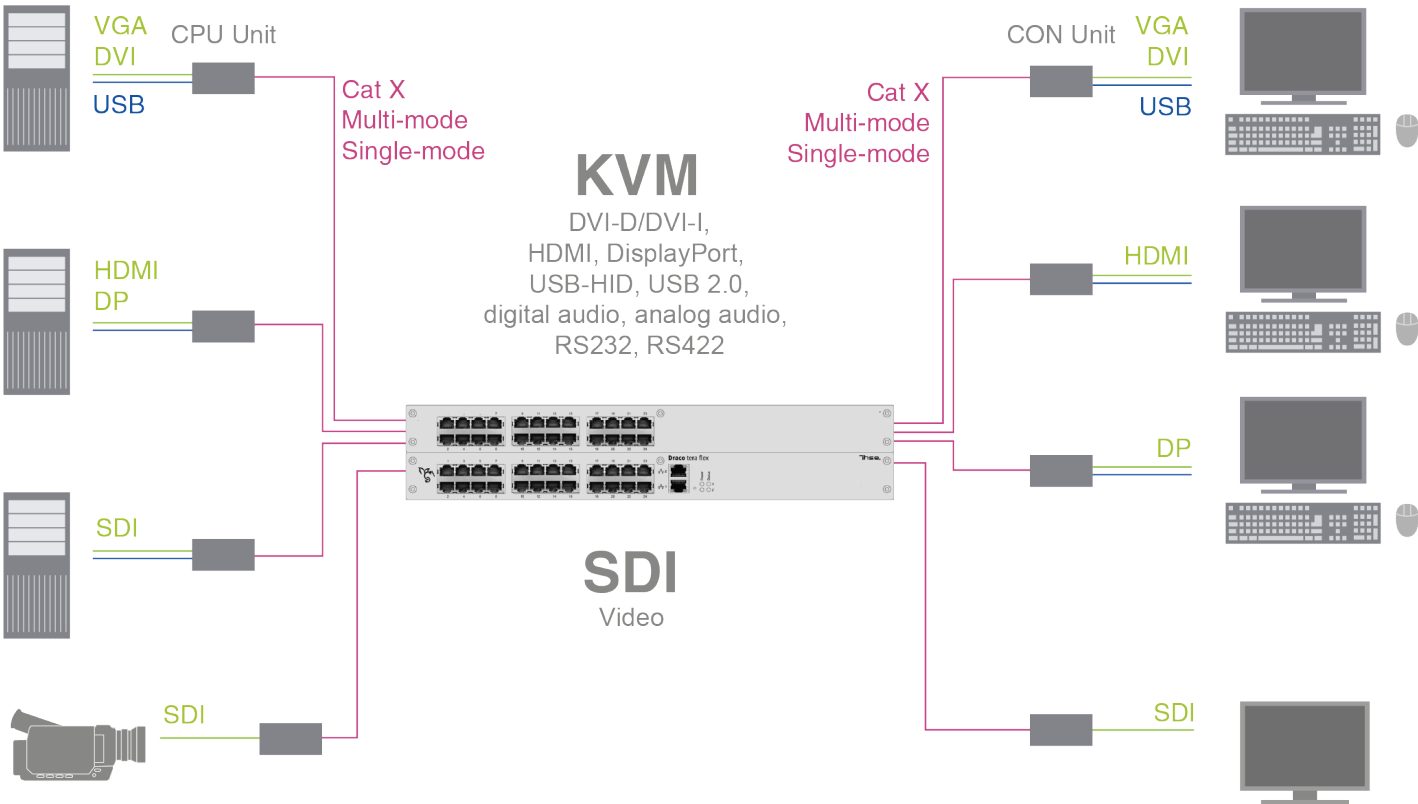
## PRODUCT FEATURES

- Features compatible to current Draco tera enterprise series and those with new controller cards:
  - SNMPv3, LDAPS
  - O/S v04.x support for multilingual OSD (Chinese, German, French, Spanish, ...)
  - encrypted communication for API, Tool and Grid, individual routing of protocols
  - faster boot-up
  - improved grid integration (faster & more reliable communication) incl. grid module
- Variations with Cat X and fiber as well as 1G, 3G are possible - also in mixed combinations
- Prepared for upcoming 1G/3G compatibility, IPv6
- Internal modular concept allows for scalability and maintenance (similar to Draco major series)
- Compatibel with all Draco vario and Draco vario ultra extenders
- Redundant power supply units (PSU) and network interface connections (NIC)
- Versatility: With only 3 types of chassis and only 5 types of I/O modules, an almost endless number of customer specific Draco tera flex matrix switches are possible
- Replaces current Draco tera compact series (the 8-port compact switch will still be available as an entry-level variant for smaller KVM installations)
- Scope of delivery: 1x Draco tera flex matrix, 2x power cord, 1x19" mounting set

KVM MATRIX FROM 16 - 160 PORTS

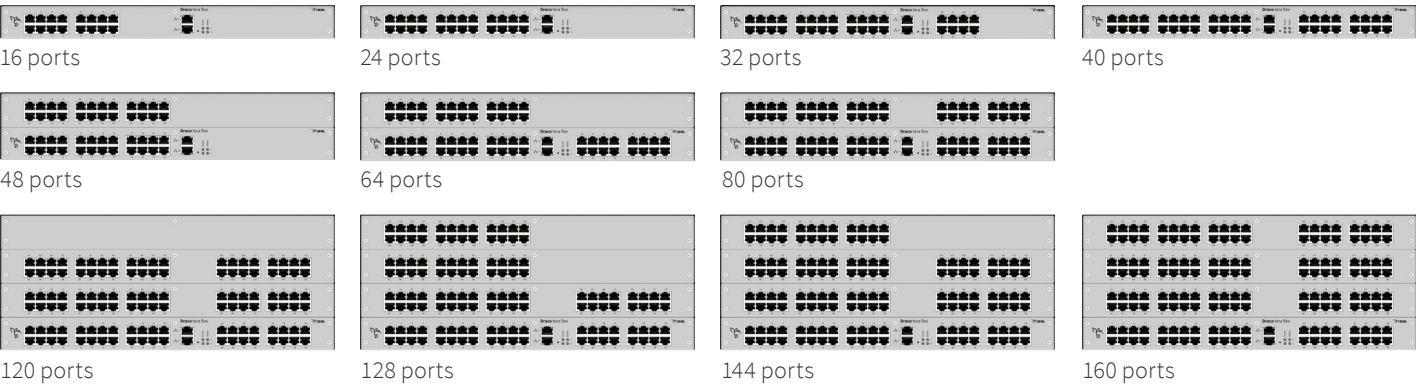
| TECHNICAL DATA         |                                                                                                                                    |          |                          |                             |                               |                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------|-----------------------------|-------------------------------|--------------------------|
| Input / Output         | 16x - 160x Cat X or fiber (any combination)<br>2x RJ-45 Gigabit Ethernet<br>Optional: 1x or more IP Gateway                        |          |                          |                             |                               |                          |
| Supported signals      | DisplayPort, HDMI, DVI-D, DVI-I, USB 2.0, USB-HID, RS232, RS422, analog / digital or balanced audio, SDI via Draco vario extenders |          |                          |                             |                               |                          |
| Maximum cable distance | Cat X                                                                                                                              | Cat X 3G | Single Mode Fiber (9 µm) | Single Mode Fiber 3G (9 µm) | Multi Mode Fiber (50 µm, OM3) | Multi Mode Fiber (50 µm) |
|                        | 140 m                                                                                                                              | 100 m    | 10,000 m                 | 5,000 m                     | 1,000 m                       | 400 m                    |
| Control                | OSD (On Screen Display), Draco tera Tool (Java), API                                                                               |          |                          |                             |                               |                          |
|                        | 1RU                                                                                                                                |          | 2RU                      |                             | 4RU                           |                          |
| Power supply           | 100-240V 3A 50/60Hz                                                                                                                |          | 100-240V 4A 50/60Hz      |                             | 100-240V 5.8A 50/60Hz         |                          |
| Dimensions (HxWxD)     | 44 x 442 x 449 mm                                                                                                                  |          | 90 x 442 x 449 mm        |                             | 177 x 442 x 449 mm            |                          |
|                        | Width including mounting brackets: 482 mm                                                                                          |          |                          |                             |                               |                          |
| Weight                 | approx. 7.7 kg                                                                                                                     |          | approx. 11 kg            |                             | approx. 19 kg                 |                          |
| Suitable Extenders     | Compatible with all Draco / Draco vario extenders: <a href="http://www.ihse.de/kvm-extender">www.ihse.de/kvm-extender</a>          |          |                          |                             |                               |                          |

FUNCTIONAL DIAGRAM



ORDER NUMBERS

Draco tera flex Cat X 1 G & Cat X 3G  
16 - 160 ports



| CAT X 1G DEVICE MODELS                         | PART NO.  |
|------------------------------------------------|-----------|
| Draco tera flex KVM matrix 16 ports, Cat X 1G  | K480-C16  |
| Draco tera flex KVM matrix 24 ports, Cat X 1G  | K480-C24  |
| Draco tera flex KVM matrix 32 ports, Cat X 1G  | K480-C32  |
| Draco tera flex KVM matrix 40 ports, Cat X 1G  | K480-C40  |
| Draco tera flex KVM matrix 48 ports, Cat X 1G  | K480-C48  |
| Draco tera flex KVM matrix 64 ports, Cat X 1G  | K480-C64  |
| Draco tera flexKVM matrix 80 ports, Cat X 1G   | K480-C80  |
| Draco tera flex KVM matrix 120 ports, Cat X 1G | K480-C120 |
| Draco tera flex KVM matrix 128 ports, Cat X 1G | K480-C128 |
| Draco tera flex KVM matrix 144 ports, Cat X 1G | K480-C144 |
| Draco tera flex KVM matrix 160 ports, Cat X 1G | K480-C160 |

| CAT X 3G DEVICE MODELS                         | PART NO.   |
|------------------------------------------------|------------|
| Draco tera flex KVM matrix 16 ports, Cat X 3G  | K480-CX16  |
| Draco tera flex KVM matrix 24 ports, Cat X 3G  | K480-CX24  |
| Draco tera flex KVM matrix 32 ports, Cat X 3G  | K480-CX32  |
| Draco tera flex KVM matrix 40 ports, Cat X 3G  | K480-CX40  |
| Draco tera flex KVM matrix 48 ports, Cat X 3G  | K480-CX48  |
| Draco tera flex KVM matrix 64 ports, Cat X 3G  | K480-CX64  |
| Draco tera flex KVM matrix 80 ports, Cat X 3G  | K480-CX80  |
| Draco tera flex KVM matrix 120 ports, Cat X 3G | K480-CX120 |
| Draco tera flex KVM matrix 128 ports, Cat X 3G | K480-CX128 |
| Draco tera flex KVM matrix 144 ports, Cat X 3G | K480-CX144 |
| Draco tera flex KVM matrix 160 ports, Cat X 3G | K480-CX160 |

Draco tera flex **Fiber 1G & Fiber 3G**

16 - 160 ports



16 Ports



24 Ports



32 Ports



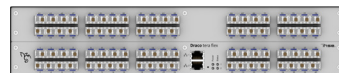
40 Ports



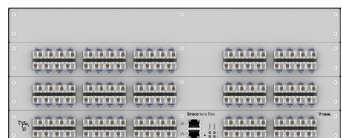
48 Ports



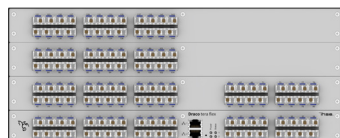
64 Ports



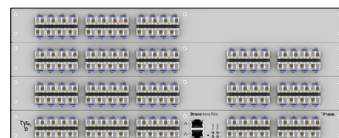
80 Ports



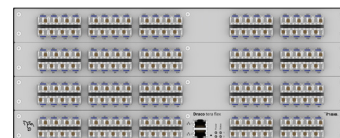
120 Ports



128 Ports



144 Ports



160 Ports

| FIBER 1G DEVICE MODELS                         | PART NO.  |
|------------------------------------------------|-----------|
| Draco tera flex KVM matrix 16 ports, fiber 1G  | K480-F16  |
| Draco tera flex KVM matrix 24 ports, fiber 1G  | K480-F24  |
| Draco tera flex KVM matrix 32 ports, fiber 1G  | K480-F32  |
| Draco tera flex KVM matrix 40 ports, fiber 1G  | K480-F40  |
| Draco tera flex KVM matrix 48 ports, fiber 1G  | K480-F48  |
| Draco tera flex KVM matrix 64 ports, fiber 1G  | K480-F64  |
| Draco tera flex KVM matrix 80 ports, fiber 1G  | K480-F80  |
| Draco tera flex KVM matrix 120 ports, fiber 1G | K480-F120 |
| Draco tera flex KVM matrix 128 ports, fiber 1G | K480-F128 |
| Draco tera flex KVM matrix 144 ports, fiber 1G | K480-F144 |
| Draco tera flex KVM matrix 160 ports, fiber 1G | K480-F160 |

| FIBER 3G DEVICE MODELS                         | PART NO.   |
|------------------------------------------------|------------|
| Draco tera flex KVM matrix 16 ports, fiber 3G  | K480-FX16  |
| Draco tera flex KVM matrix 24 ports, fiber 3G  | K480-FX24  |
| Draco tera flex KVM matrix 32 ports, fiber 3G  | K480-FX32  |
| Draco tera flex KVM matrix 40 ports, fiber 3G  | K480-FX40  |
| Draco tera flex KVM matrix 48 ports, fiber 3G  | K480-FX48  |
| Draco tera flex KVM matrix 64 ports, fiber 3G  | K480-FX64  |
| Draco tera flex KVM matrix 80 ports, fiber 3G  | K480-FX80  |
| Draco tera flex KVM matrix 120 ports, fiber 3G | K480-FX120 |
| Draco tera flex KVM matrix 128 ports, fiber 3G | K480-FX128 |
| Draco tera flex KVM matrix 144 ports, fiber 3G | K480-FX144 |
| Draco tera flex KVM matrix 160 ports, fiber 3G | K480-FX160 |

Draco tera flex **Hybrid 1G & Hybrid 3G**

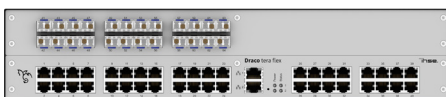
40 - 160 ports



40 ports



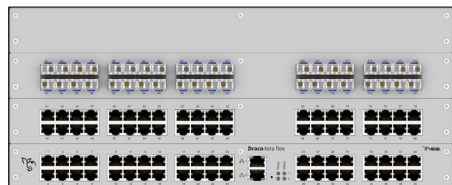
64 ports



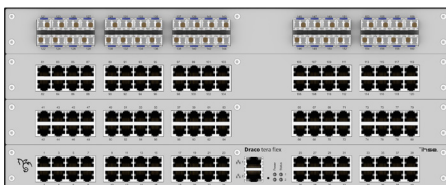
64 ports



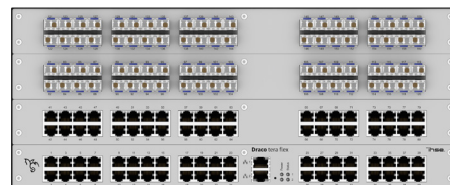
80 ports



120 ports



160 ports



160 ports

| HYBRID 1G DEVICE MODELS                                               | PART NO.     |
|-----------------------------------------------------------------------|--------------|
| Draco tera flex KVM matrix 40 ports (24 Cat X, 16 fiber), hybrid 1G   | K480-C24F16  |
| Draco tera flex KVM matrix 64 ports (24 Cat X, 40 fiber), hybrid 1G   | K480-C24F40  |
| Draco tera flex KVM matrix 64 ports (40 Cat X, 24 fiber), hybrid 1G   | K480-C40F24  |
| Draco tera flex KVM matrix 80 ports (40 Cat X, 40 fiber), hybrid 1G   | K480-C40F40  |
| Draco tera flex KVM matrix 120 ports (80 Cat X, 40 fiber), hybrid 1G  | K480-C80F40  |
| Draco tera flex KVM matrix 160 ports (80 Cat X, 80 fiber), hybrid 1G  | K480-C80F80  |
| Draco tera flex KVM matrix 160 ports (120 Cat X, 40 fiber), hybrid 1G | K480-C120F40 |

| HYBRID 3G DEVICE MODELS                                               | PART NO.       |
|-----------------------------------------------------------------------|----------------|
| Draco tera flex KVM matrix 40 ports (24 Cat X, 16 fiber), hybrid 3G   | K480-CX24FX16  |
| Draco tera flex KVM matrix 64 ports (24 Cat X, 40 fiber), hybrid 3G   | K480-CX24FX40  |
| Draco tera flex KVM matrix 64 ports (40 Cat X, 24 fiber), hybrid 3G   | K480-CX40FX24  |
| Draco tera flex KVM matrix 80 ports (40 Cat X, 40 fiber), hybrid 3G   | K480-CX40FX40  |
| Draco tera flex KVM matrix 120 ports (80 Cat X, 40 fiber), hybrid 3G  | K480-CX80FX40  |
| Draco tera flex KVM matrix 160 ports (80 Cat X, 80 fiber), hybrid 3G  | K480-CX80FX80  |
| Draco tera flex KVM matrix 160 ports (120 Cat X, 40 fiber), hybrid 3G | K480-CX120FX40 |

Draco tera flex **Grid versions**

1x grid interface (IP Gateway)



| GRID VERSIONS 1X IP GATEWAY                                                       | PART NO.     |
|-----------------------------------------------------------------------------------|--------------|
| Draco tera flex KVM matrix 40 ports, 32x Cat X 1G, 1x IP Gateway, 1RU             | K480-C32G    |
| Draco tera flex KVM matrix 40 ports, 32x fiber 1G, 1x IP Gateway, 1RU             | K480-F32G    |
| Draco tera flex KVM matrix 40 ports, 16x Cat X 1G/16 fiber 1G, 1x IP Gateway, 1RU | K480-C16F16G |

2x grid interface (IP Gateway) (without picture)

| GRID VERSIONS 2X IP GATEWAY                                           | PART NO.   |
|-----------------------------------------------------------------------|------------|
| Draco tera flex KVM matrix 40 ports, 24x Cat X 1G, 2x IP Gateway, 1RU | K480-C24G2 |
| Draco tera flex KVM matrix 40 ports, 24x fiber, 2x IP Gateway, 1RU    | K480-F24G2 |

## Draco tera flex Custom Design 2RU &amp; 4RU

## MODULAR CONCEPT

- Start with a 40-Port matrix with the scalability of up to 80 ports non-blocking (2 RU)
- Start with a 40-Port matrix with the scalability of up to 160 ports non-blocking (4 RU)
- Mix & match Cat X and fiber in a variety of options
- Mix & match 1G and 3G (4k60) interfaces in a variety of options
- Combination with IP Gateway possible
- Offers almost Draco tera enterprise flexibility and scalability at compact size and price
- All versions with integrated dual PSU and Dual NIC



Custom Design: up to 80 ports  
K480-C40-2RU  
K480-CX40-2RU



Custom Design: up to 80 ports  
K480-F40-2RU  
K480-FX40-2RU



Custom Design: up to 80 ports  
K480-C24F16-2RU  
K480-CX24FX16-2RU



Custom Design: up to 120 ports  
K480-C40-4RU  
K480-CX40-4RU



Custom Design: up to 160 ports  
K480-F40-4RU  
K480-FX40-4RU



Custom Design: up to 160 ports  
K480-C24F16-4RU  
K480-CX24FX16-4RU



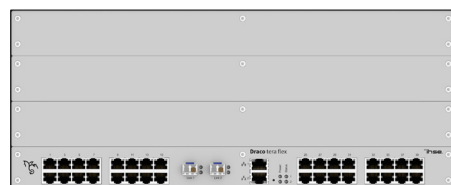
Custom Design: up to 72 ports  
K480-C32G-2RU  
K480-CX32G-2RU



Custom Design: up to 72 ports  
K480-F32G-2RU  
K480-FX32G-2RU



Custom Design: up to 72 ports  
K480-C16F16G-2RU



Custom Design: up to 152 ports  
K480-C32G-4RU  
K480-CX32G-4RU



Design: up to 152 ports  
K480-F32G-4RU  
K480-FX32G-4RU



Design: up to 152 ports  
K480-C16F16G-4RU

| CUSTOM DESIGN STARTER KIT 2RU UP TO 80 PORTS                                                            | PART NO.          |
|---------------------------------------------------------------------------------------------------------|-------------------|
| Draco tera flex KVM matrix 40 ports, Cat X 1G, custom design, 2 RU                                      | K480-C40-2RU      |
| Draco tera flex KVM matrix 40 ports, fiber 1G, custom design, 2 RU                                      | K480-F40-2RU      |
| Draco tera flex KVM matrix 40 ports, 24x Cat X 1G/16x fiber 1G, custom design, 2 RU                     | K480-C24F16-2RU   |
| Draco tera flex KVM matrix 40 ports, Cat X 3G, custom design, 2 RU                                      | K480-CX40-2RU     |
| Draco tera flex KVM matrix 40 ports, fiber 3G, custom design, 2 RU                                      | K480-FX40-2RU     |
| Draco tera flex KVM matrix 40 ports, 24x Cat X 3G/16x fiber 3G, custom design, 2 RU                     | K480-CX24FX16-2RU |
| Draco tera flex KVM matrix 40 ports, 32x Cat X 1G, 1x IP Gateway, custom design, 2 RU                   | K480-C32G-2RU     |
| Draco tera flex KVM matrix 40 ports, 32x fiber1G, 1x IP Gateway, custom design, 2 RU                    | K480-F32G-2RU     |
| Draco tera flex KVM matrix 40 ports, 16x Cat X 1G/16x fiber 1G, 1x IP Gateway, custom design, 2 RU      | K480-C16F16G-2RU  |
| Draco tera flex KVM matrix 40 ports, 24x Cat X 1G, 2x IP Gateway, custom design, 2 RU (without picture) | K480-C24G2-2RU    |
| Draco tera flex KVM matrix 40 ports, 24x fiber 1G, 2x IP Gateway, custom design, 2 RU (without picture) | K480-F24G2-2RU    |

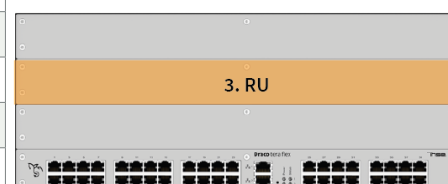
| CUSTOM DESIGN STARTER KIT 4RU UP TO 160 PORTS                                                            | PART NO.          |
|----------------------------------------------------------------------------------------------------------|-------------------|
| Draco tera flex KVM matrix 40 ports, 40x Cat X 1G, custom design, 4 RU                                   | K480-C40-4RU      |
| Draco tera flex KVM matrix 40 ports, 40x fiber 1G, custom design, 4 RU                                   | K480-F40-4RU      |
| Draco tera flex KVM matrix 40 ports, 24x Cat X 1G/16x fiber 1G, custom design, 4 RU                      | K480-C24F16-4RU   |
| Draco tera flex KVM matrix 40 ports, 40x Cat X 3G, custom design, 4 RU                                   | K480-CX40-4RU     |
| Draco tera flex KVM matrix 40 ports, 40x fiber 3G, custom design, 4 RU                                   | K480-FX40-4RU     |
| Draco tera flex KVM matrix 40 ports, 24x Cat X 3G/16x fiber 3G, custom design, 4 RU                      | K480-CX24FX16-4RU |
| Draco tera flex KVM matrix 40 ports, 32x Cat X 1G, 1x IP Gateway, custom design, 4 RU                    | K480-C32G-4RU     |
| Draco tera flex KVM matrix 40 ports, 32x fiber 1G, 1x IP Gateway, custom design, 4 RU                    | K480-F32G-4RU     |
| Draco tera flex KVM matrix 40 ports, 16x Cat X 1G/16x fiber 1G, 1x IP Gateway, custom design, 4 RU       | K480-C16F16G-4RU  |
| Draco tera flex KVM matrix, 40 ports, 24x Cat X 1G, 2x IP Gateway, custom design, 4 RU (without picture) | K480-C24G2-4RU    |
| Draco tera flex KVM matrix, 40 ports, 24x fiber 1G, 2x IP Gateway, custom design, 4 RU (without picture) | K480-F24G2-4RU    |

| CUSTOM DESIGN I/O MODULES                           | PART NO. |
|-----------------------------------------------------|----------|
| Draco tera flex 8 Ports, I/O module, Cat X 1G       | F480-C8  |
| Draco tera flex 8 Ports, I/O module, fiber 1G       | F480-F8  |
| Draco tera flex 8 Ports, I/O module, Cat X 3G       | F480-CX8 |
| Draco tera flex 8 Ports, I/O module, fiber 3G       | F480-FX8 |
| Draco tera flex Grid module (IP Gateway), fiber 10G | F480-G   |

| CUSTOM DESIGN FRONT PLATES (2. RU)                                  | PART NO.    |
|---------------------------------------------------------------------|-------------|
| Draco tera flex front plate 24x Cat X 1G/3G (2. RU)                 | F480-C24S2  |
| Draco tera flex front plate 40x Cat X 1G/3G (2. RU)                 | F480-C40S2  |
| Draco tera flex front plate 24x fiber 1G/3G (2. RU)                 | F480-F24S2  |
| Draco tera flex front plate 40x fiber 1G/3G (2. RU)                 | F480-F40S2  |
| Draco tera flex front plate 32x Cat X 1G/3G + 1x IP Gateway (2. RU) | F480-C32GS2 |
| Draco tera flex front plate 32x fiber 1G/3G + 1x IP Gateway (2. RU) | F480-F32GS2 |
| Draco tera flex grid module, 5x IP Gateway (2. RU)                  | F480-G5S2   |



| CUSTOM DESIGN FRONT PLATES (3. RU)                                  | PART NO.    |
|---------------------------------------------------------------------|-------------|
| Draco tera flex front plate 24x Cat X 1G/3G (3. RU)                 | F480-C24S3  |
| Draco tera flex front plate 40x Cat X 1G/3G (3. RU)                 | F480-C40S3  |
| Draco tera flex front plate 24x fiber 1G/3G (3. RU)                 | F480-F24S3  |
| Draco tera flex front plate 40x fiber 1G/3G (3. RU)                 | F480-F40S3  |
| Draco tera flex front plate 32x Cat X 1G/3G + 1x IP Gateway (3. RU) | F480-C32GS3 |
| Draco tera flex front plate 32x fiber 1G/3G + 1x IP Gateway (3. RU) | F480-F32GS3 |
| Draco tera flex grid module, 5x IP Gateway (3. RU)                  | F480-G5S3   |



| CUSTOM DESIGN FRONT PLATES (4. RU)                                  | PART NO.    |
|---------------------------------------------------------------------|-------------|
| Draco tera flex front plate 24x Cat X 1G/3G (4. RU)                 | F480-C24S4  |
| Draco tera flex front plate 40x Cat X 1G/3G (4. RU)                 | F480-C40S4  |
| Draco tera flex front plate 24x fiber 1G/3G (4. RU)                 | F480-F24S4  |
| Draco tera flex front plate 40x fiber 1G/3G (4. RU)                 | F480-F40S4  |
| Draco tera flex front plate 32x Cat X 1G/3G + 1x IP Gateway (4. RU) | F480-C32GS4 |
| Draco tera flex front plate 32x fiber 1G/3G + 1x IP Gateway (4. RU) | F480-F32GS4 |
| Draco tera flex grid module, 5x IP Gateway (4. RU)                  | F480-G5S4   |

