

The ideal expansion of connectivity for your Matrix Grid installation

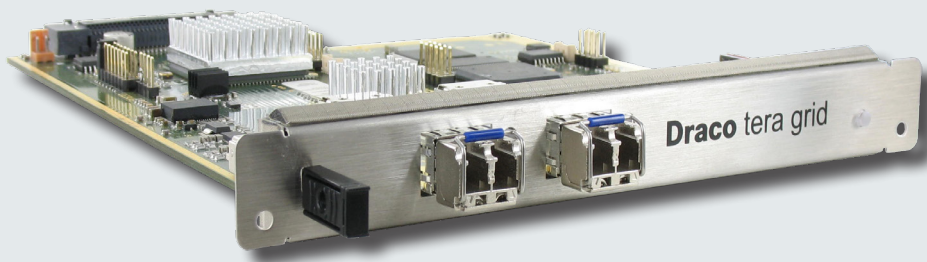
Site connection in Matrix Grid

8 or 4 grid lines via one fiber

Reduction of interconnect cables

KVM over Ethernet Layer 2 (WAN)

Auto configuration



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MATRIX GRID I/O BOARD FEATURES*

Reduction in Cabling

The use of the Grid I/O boards significantly reduces the cabling effort between Draco tera enterprise matrices. Instead of single Grid lines for each interconnection, using standard I/O boards, the specific Grid board ensures to handle up to 8 Grid lines via one 10G fiber connection (XV: 4 Grid lines).

Site Connection

Based on Ethernet layer 2 standard, the Grid I/O board offers a wide range of connectivity in combining Draco tera matrix switches, even if located far from each other in different sites. Connecting the boards directly ensures a distance of up to 1.4 or 10 km (SFP dependant),

but using access to a carrier network of 3rd party hardware (e.g. 10G network switches and repeaters) allows you to connect matrices that can be hundreds of kilometers apart.

Cost Efficiency

By Reducing the number of required cables for matrix interconnection, this at the same time comes a long with a reduction of cabling costs and efforts. Compared to a CWDM solution that is the conventional method of reducing the number of cables, the Grid I/O board also saves considerable cost.

Flexible Setup

In a setup based on two matrices, the Grid I/O boards can be directly

connected via one fiber port. But when having multiple matrices, the use of the 2nd fiber port on each board allows you to setup a ring topology with 4 Grid connections on each port. This means that each matrix will have to be connected to two other matrices.

Easy Configuration

For the use of the Matrix Grid I/O boards, there is no need for a specific configuration in the firmware, but only an existing Matrix Grid. At the same time this allows an easy expansion of existing installations with hardly any configuration efforts.

* Some of the mentioned features will be part of future firmware updates.

PRODUCT DATA

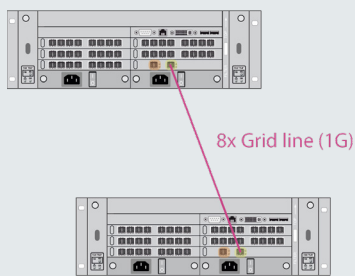
- › 2x SFP based LC duplex fiber connectors (10G Bandwidth)
- › Distances of up to 1.4 km or 10 km in a direct connection
- › Ethernet Layer 2 support
- › Compatible to firmware V03.03 or higher

TECHNICAL DATA

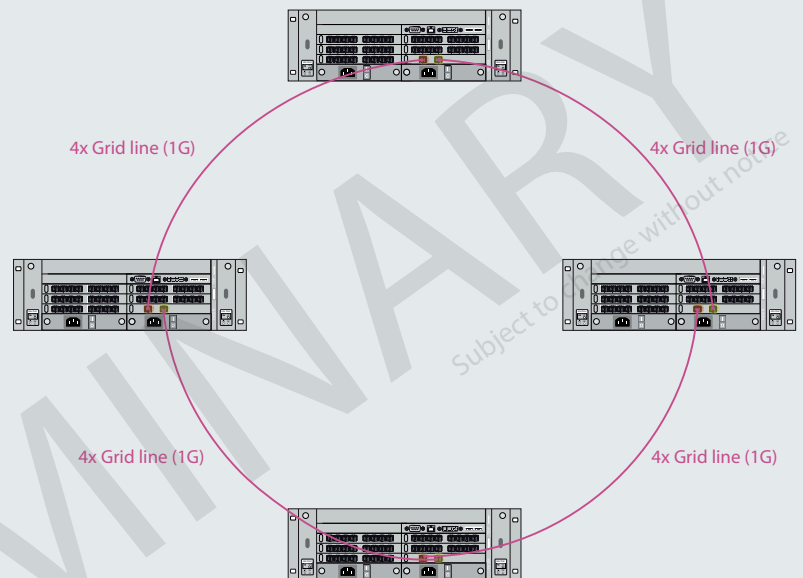
Input and Output Interface	Fiber (LC duplex)	
Distance per connection (max.)	Single-Mode (9μ)	1.4 km or 10 km (SFP dependent)
Requirement	Already configured matrix grid	

SETUP POSSIBILITIES

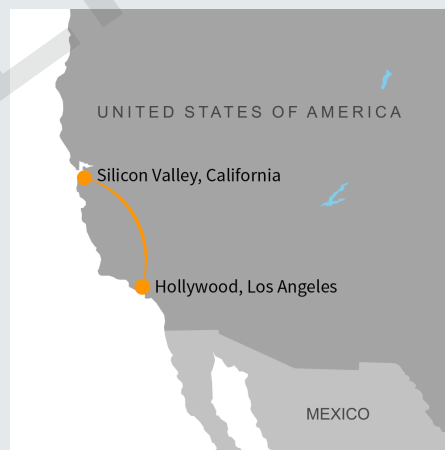
Direct topology



Ring topology



IHSE Matrix Grid technology enables worldwide KVM site connection over Ethernet (WAN) infrastructure:



PRODUCT RANGE

Product	Data Transmission	Part No.
Draco tera enterprise Grid, 8 to 1 port I/O modul, fiber (up to 1.4 km, 10 km upon request), 10G, incl. 1x 459-10S10		480-GRD-S8R1
SFP single-mode, LC duplex, bidirectional, 10G, MSA, 10 km		459-10S10