IANOS 4U chassis

The IANOS 4U chassis is designed for high density applications where connections to high density blade servers and switches are required in the same or adjacent racks. Generally mounted above or below switches, the IANOS 4U chassis supports up to 576 fibers (288 ports) in LC duplex. The split design of the IANOS chassis allows users to separate redundant cable feeds down different sides of the equipment cabinet so that there is less risk of disruption to live traffic.

IANOS 1U chassis

The IANOS 1U chassis is designed for medium to high density applications where connections to servers and switches are required in the same or adjacent racks. Generally mounted at the top of equipment cabinets, the IANOS 1U chassis supports up to 144 fibers (72 ports) in LC duplex or the IANOS lite chassis supports up to 96 fibers (48 ports). The split design of the IANOS chassis allows users to separate redundant cable feeds down different sides of the equipment cabinet so that there is less risk of disruption to live traffic.

IANOS 19" Chassis 1U and 4U

Characteristics

- Up to 12 modules/72 ports (LC duplex/MTP) per 1U space
- Insertion and removal of drawers and modules with one hand
- Horizontal opening front-door, separate redundant paths
- Labeling within front-door or as a slide-out system from within the chassis central dividing element
- Single-handed handling of drawers and modules
- Same modules for all IANOS applications
- Optional rear cable manager with divider plate (left/right)

IANOS chassis are high density scalable sub-racks designed to accommodate the next generation of data rates and transceivers in rapidly evolving network services. Available in 1U or 4U increments, the IANOS chassis delivers industry leading density and best in class handling across almost every application be it splicing, pre-terminated cables or direct patching.

IANOS modules can be inserted from the front or the rear of the chassis and it is possible to mix and match any of the IANOS single or double modules in the same individual chassis. Unlike other fiber panels on the market, the IANOS chassis has a split design separating the left hand side of the chassis from the right hand side. This means that users are able to access just one half of the connectivity row without disrupting pre-installed business-critical fibers. The unique central door system of the IANOS chassis further acts as a clear separation element between the two sides of the panel, and users are deliberately prevented from crossing fibers from one side of the chassis to the other. This split-panel principle also helps to maintain redundant cable paths and reduces the risk of possible downtime.

Technical data

Attribute	Value
Rack unit	1U and 4U
Mounting type	standard 19 in rails
Dimensions (W × D × H)	1U: 19 × 12.9 × 1.7 in 4U: 19 × 12.9 × 6.97 in
Weight	1U: 8.0 lb 4U: 27.3 lb
Material	chassis and drawers: stainless steel powder coated other components: UPC/ABS
Color	gray housing (RAL 7047) with blue control elements
Capacity	1U: up to 12 × IANOS modules 4U: up to 48 × IANOS modules
Density	1U: up to 72 ports (LC duplex/MTP) 4U: up to 288 ports (LC duplex/MTP)

Environmental data for all chassis and modules

Attribute	Value
Free of halogen	yes
2011/65/EC (RoHS)	fully compliant

Key Features IANOS Chassis

Clearer and faster identification

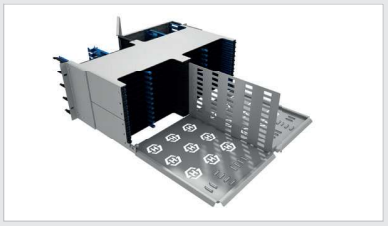
The IANOS chassis is fully loaded with numerous identification areas for clearer and faster traceability. Doors can be labelled for identification or to show redundant feeds. Patching rows, module positions and of course port positions are all clearly marked on the product itself. There is even a slide out label in the center of the chassis for additional information.

Quick and easy access to patch cords

Because the IANOS chassis is constructed with three sliding trays on the left and right side of the chassis, access to connectors is fast and easy. Each tray can be slid out independently so that there is minimum disruption to pre-installed cords.

Split design for improved cable separation

Standardisation bodies such as TIA and IEC recommend that redundant cable paths are created in the data center. The IANOS system facilitates this by completely separating cables entering or exiting the chassis. The benefit of this is zero disruption to redundant paths and much clearer identification of live/redundant traffic.



IANOS chassis 1U, 4U and zero-space

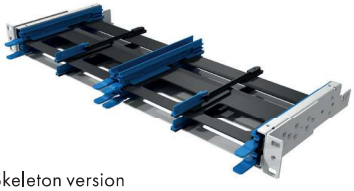
Ordering information

Description	Item no.
IANOS 1U chassis, gray, for up to 12 × IANOS modules *	85069469
IANOS 4U chassis, gray, for up to 48 × IANOS modules *	85069470
IANOS 1U rear cable manager, gray	85069473
IANOS 4U rear cable manager, gray	85069474
IANOS zero space chassis, gray, for up to 6 IANOS modules	85069471

* Chassis supplied with standard white label and front doors. Rear cable manager needs to be ordered separately.

IANOS Lite 19" Chassis 1U

Standard version



Skeleton version

Characteristics

- High density sub-rack for up to 8 modules 48 x ports (LC-duplex/MTP) per 1U space
- Quick and simple installation of sub-rack, modules and cables
- Insertion of single and double modules from the rear and front
- Easy access and protection of ports through horizontal opening front door (Optional)
- Fixed tray design
- Labeling within front-door or as a slide-out system
- Compatible to all double or single IANOS modules

IANOS Lite chassis are high density scalable sub-racks designed to accommodate the next generation of data rates and transceivers in the rapidly evolving structured cabling market. Available in 1U increments, the IANOS lite chassis delivers industry leading density and best-in-class handling across almost every application be it splicing, pre-terminated cables or direct patching.

IANOS modules can be inserted from the front or the rear of the chassis and can be mixed and matched with any of the IANOS single or double modules in the same individual chassis. Unlike other fiber panels on the market, the IANOS lite chassis has a non-moving tray design. This means that end-users are able to access connectivity rows without disrupting pre-installed business-critical fibers by sliding modules out of the chassis. The unique central door system of the IANOS chassis further acts as a clear separation element between the two sides of the panel assuring that users are deliberately prevented from crossing fibers from one side of the chassis to the other. This split-panel principle also helps to maintain redundant cable paths and reduces the risk of possible downtime.

Technical data

Attribute		Value
Rack unit		1U
Mounting type		standard 19 in rails
Dimensions (W × D × H)	Skeleton version: Standard version:	19 × 11.9 × 1.7 in 19 × 8.6 × 1.7 in
Weight	Skeleton version: Standard version:	1.6 lb 2.3 lb
Material		Chassis and drawers: stainless steel powder coated Other components: UPC/ABS
Color		gray housing (RAL 7047) with blue control elements
Capacity		1U: up to 8 × IANOS modules
Density		1U: up to 48 ports (LC duplex/MTP)

Environmental data for all chassis and modules

Attribute	Value
Free of halogen	yes
2011/65/EC (RoHS)	fully compliant

Key Features IANOS Lite 19" Chassis

Quick and easy access to patch cords

The IANOS lite chassis is designed to provide easy handling as wall as fast and complete access to the connectors. The unique design also allows installers easy access from the back and the front of the IANOS lite chassis when installing fibers. Cable guides allow for safe handling and routing of the patch cords on both sides.

No disruping of live patch cords

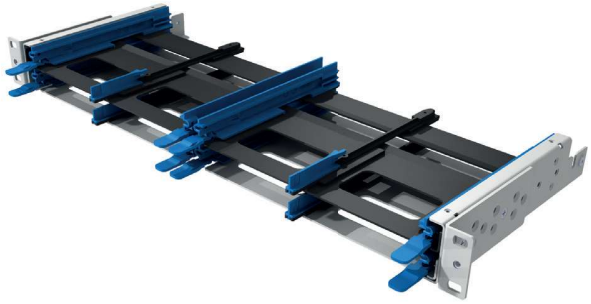
The fixed tray design provides highly secure connections with no disruption to pre-installed patch cords and modules. The simple design of the chassis and extra space between the modules allows the addition or removal of patch cords even when other connections are live. This in turn reduces the risk of downtime and damage to the patch cords.

Fast MAC's

Because the modules do not need to be moved during patching, a fast and straight forward approach is possible. The integrated cable management system enables easy, quick and scalable cabling throughout the lifecycle of your network.

IANOS Lite Chassis 1U, Standard and Skeleton

Chassis



Ordering information

Description	Item no.
IANOS lite standard 1U chassis, gray for up to 8 x IANOS modules	85086220
IANOS lite skeleton 1U chassis, gray for up to 8 x IANOS modules	85089215

Chassis accessories

Ordering information

Description	Item no.
IANOS-LITE-SIDE-CABLE-MGT-T4	85089277
IANOS-LITE-CENT-CABLE-MGT-T4	85089214
IANOS 1U rear cable manager, gray	85069473
IANOS blanking plate	85086306
IANOS mandrel set	85085974

HUBER+SUHNER Fiber Base Types

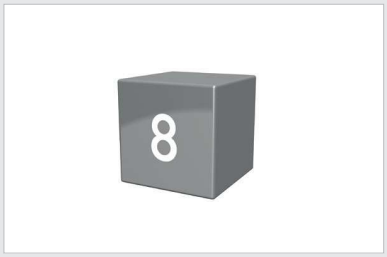
A wide variance of different backbone types allows you to satisfy your immediate requirements but also offers you the scalability and upgradability required for the future. HUBER+SUHNER offers a wide range of backbone solutions (Base-2, Base-8, Base-12 and Base-24). This broad range of solutions allows for an easy upgrade from today's 10G links to future 40G or 100G links.

Base-2

The Base-2 system is based on LC trunks in the backbone. The Base-2 system is generally used in single mode applications where the ability to upgrade to higher data rates is guaranteed by the optical performance of the fiber.

Base-8

The Base-8 system is based on pinned MTP trunks in the backbone. The Base-8 system is SR4 ready which means that the backbone connectivity has the same fiber count as the SR4 transceiver. This matched connectivity means that customers can patch directly to SR4 transceivers without having to convert connectors with different fiber counts or waste excess fibers in the backbone.



Base-12

The Base-12 system is based on un-pinned trunks in the backbone. The Base-12 system is partially SR4 ready because unlike the Base-8 system, Base-12 does not utilize all of the fibers in the backbone when patched directly with SR4 transceivers. Multiple Base-12 connectors can be combined and then converted so that full fiber utilization can still be achieved.

Base-24

Base-24 is generally deployed for 100G parallel links running over SR10 transceivers. Normally these links are between two high data-rate switches as opposed to switch to server.

IANOS Modules

IANOS modules are interchangeable connectivity blocks that can be inserted into the IANOS chassis from the front and rear side. A wide range of different modules are available to cover many different applications such as patching, splicing, transition and conversion. Single and double modules are available to give users a higher degree of flexibility and choice as to how they want to build their fiber optic infrastructure.

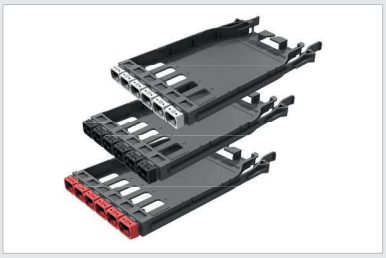
IANOS modules are extremely compact as well as lightweight and can easily be inserted and removed as the infrastructure evolves. Operators who upgrade their infrastructure to higher data rates can remove their legacy 10G modules, then replace them with modules more suitable for 40G and 100G for example. This building block approach is what makes the IANOS system so scalable and adaptive.

All of the IANOS modules contain high-performance optical fibers and components so that the total hardware loss is reduced to an absolute minimum. This is important in higher data rate environments because allowable optical budgets are significantly lower at 40G and 100G than they are for legacy 1G and 10G systems. This enhanced performance helps operators to maintain flexibility whilst achieving performance.

Key Features IANOS Modules

Color-coded MTP adapters

A unique feature of the IANOS patching module is color coded adapters by Base-type. Colored frames are added to the outer face of the adapter so that users can quickly identify MTP types. This color scheme is also continued through the cable system portfolio so that users can visually check that the correct trunks or cords are connected together.

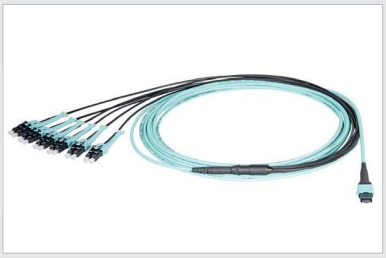


Polarity flippable adapters

The MTP adapter fitted to all IANOS modules can be removed and rotated so that the polarity can be adjusted in the field. This allows users to convert a type A adapter (key-up to key-down) to a type B adapter (key-up to key-up). A clear marking is provided on the top of the adapter to show the type being deployed.

Supported by high performance HUBER+SUHNER harnesses

The IANOS patching modules can either be fed from the rear with a trunk cable or alternatively harnesses can be connected to the front of the module. The HUBER+SUHNER cable harnesses are extremely compact both in terms of cable diameter and furcation body. These two products compliment each other superbly and offer the customer a total solution that is compact as well as optimized for performance and handling.



IANOS Patching Modules

Characteristics
- 6 x adapters per module (LC duplex/MTP/SC simplex)
- Fast and tool-less installation
- Cable guide at rear
- Facilitates patching to transceiver
- Available in Singlemode and Multimode OM3/OM4 performance
- Compatible with IANOS 1U/4U and zero space chassis
- Color coded LC adapters by performance
- Color coded MTP adapter shrouds by Base-type

The IANOS patching module is a straight through MTP or LC patching field which allows trunk cables to be connected directly to patch cords or harnesses. In Base-2 singlemode applications, the IANOS patching module provides a fast plug and play alternative to fusion splicing. For MTP multimode applications, the patching module is designed to facilitate end-to-end parallel optics using Base-8, Base-12 or Base-24 connectivity.

Technical data

Attribute		Value
Product family		IANOS
Suitable for		Chassis Zero space chassis
Dimensions (W × D × H)		3.81 × 6.77 × 0.47 in
Material		PC/ABS
Color		black (RAL 9005)
Number of adapters	front	6 × LC duplex adapter/6 × MTP adapters/ 6x SC simplex
	rear	n/a
Adapter types	front	LC duplex/MTP key-up/key-down (reversible to key-up/key-up if needed)
	rear	n/a
Adapter Colors	LC	blue (SM/UPC) aqua (MM/OM3/OM4)
	MTP MM	black body/gray shroud (8 fiber) black body/black shroud (12 fiber) black body/red shroud (24 fiber)
	MTP SM	green body/gray shroud (8 fiber) green body/black shroud (12 fiber) green body/red shroud (24 fiber)
	SC	black (SM/MM)

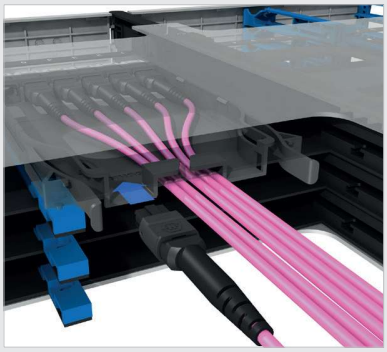
Key Features Patching Modules

Simpler upgrades with MTP patch and LC harness

As networks migrate to higher data rates, the LC connector is being replaced by the MTP connector. MTP is generally used to aggregate 10G server connections to 40G and 100G switch ports. Because the majority of LC-MTP upgrades are at the switch end, it makes sense to deploy a MTP patch module in the switch rack and then run harnesses to the server.

Quick feed-through functionality to pre-installed modules

The IANOS patching module incorporates a cable guiding system at the rear of the module which facilitates fast and simple installation of trunk cables. Trunk cables are terminated on the back of the adapter while patch cords are terminated on the front of the adapter.



IANOS Patching Modules

Ordering information

Description	Item no.
Patching module, single size, Base-2, 6 × LCD adapter blue, Singlemode UPC	85072924
Patching module, single size, Base-2, 6 x LCD adapter green, Singlemode APC	85073353
Patching module, single size, Base-2, 6 × LCD adapter aqua, Multimode UPC (OM3/OM4)	85073354

Ordering information

Description	Item no.
Patching module, single size, Base-1, 6x SC simplex adapter black, Singlemode and Multimode (OM3/OM4)	85083805

Ordering information

Description	Item no.
Patching module, single size, Base-8, 6 × MTP8 adapter body black, shroud gray, key-up/key-down	85072925
Patching module, single size, Base-8, 6 x MTP8 adapter body black, shroud gray, key-up/key-up	85072926
Patching module, single size, Base-8, 6 x MTP8 adapter body green, shroud gray, key-up/key-down	85072928

IANOS Patching Modules

Ordering information

Description	Item no.
Patching module, single size, Base-12, 6 × MTP12 adapter body black, shroud black, key-up/key-down	85072929
Patching module, single size, Base-12, 6 × MTP12 adapter body black, shroud black, key-up/key-up	85072930
Patching module, single size, Base-12, 6 × MTP12 adapter body green, shroud black, key-up/key-down	85072927

Ordering information

Description	Item no.
Patching module, single size, Base-24, 6 × MTP24 adapter body black, shroud red, key-up/key-down	85072931
Patching module, single size Base-24, 6 x MTP24 adapter body black, shroud red, key-up/key-up	85072932

IANOS MTP-LC Transition Modules

Characteristics

- MTP to LC transition
- Single and double modules available
- Fast and tool-less installation
- Facilitates patching to transceiver
- Available for Base-8, 12 and 24
- Available in Multimode OM3/OM4 and Singlemode performance
- Compatible with IANOS 1U/4U and zero space chassis
- Color coded LC adapters by performance
- Color coded MTP adapter shrouds by Base-type

IANOS transition modules convert MTP backbone cables to LC connectivity at the front of the module so that LC patch cords can be connected to nearby active equipment. Generally used for lower data rates such as 1G, 10G or 16G. IANOS transition modules offer users the possibility to upgrade their LC based links in the future simply by replacing the transition module with an MTP based conversion module, patching module or conversion harness. Transition modules are available in single or double versions and are suitable for Base-8, Base-12 or Base-24 MTP backbones.

Technical data

Attribute		Value
Product family		IANOS
Suitable for		chassis/zero space chassis
Dimensions (W × D × H)		single module 3.8 × 6.8 × 0.5 in double module 7.7 × 6.8 × 0.5 in
Material		UPC/ABS
Color		black (RAL 9005)
Adapter types	front	LC duplex
	rear	MTP 8, 12 or 24 (key-up/key-down)
Adapter Colors	LC	aqua (MM/OM3), heather violet (MM/OM4), blue (SM/OS2)
	MTP MM	black body/gray shroud (8 fiber) black body/black shroud (12 fiber) black body/red shroud (24 fiber)
	MTP SM	green body/gray shroud (8 fiber) green body/black shroud (12 fiber) green body/red shroud (24 fiber)
Ferrule	LC	zirconia ceramic
	MTP	composite

Optical data

Attribute	Value
Fiber count	single module 8 or 12, double module 24
Fiber type	Multimode 50/125 µm OM3 Multimode 50/125 µm OM4 Singlemode 9/125 µm OS2
Module insertion loss	MM OM3: ≤0.45 dB MM OM4: ≤0.35 dB SM OS2: ≤0.50 dB
Module return loss	MM OM3: ≥30 dB MM OM4: ≥30 dB SM OS2 UPC: ≥50 dB SM OS2 APC: ≥60 dB

Key Features Transition Modules

MTP 10G systems that are upgradeable in the future

Transition modules using MTP connectivity at the rear of the module allows users to build an upgradeable backbone suitable for 40G or 100G in the future. Deploying MTP in the backbone also offers users a high degree of flexibility when connecting different types of interfaces and equipment.

Single and double modules for increased flexibility

Having the flexibility of a single or double module in the IANOS portfolio is crucial for many applications. The double module offers improved routing space and handling when splicing cables. It also allows high fiber-count trunk cables to be better utilized in the chassis. A Base-8 double module supports a trunk cable that has 24 fibers and splits to 3 x 8 fiber MTPs at the rear of the module. This reduces the size and installation time of the cable and also provides 100 % port density in the chassis.

Low-loss performance 0.35 dB

As data rates increase in a network, the distance over which you can transmit data is reduced significantly. Furthermore, the total optical loss budget is also lowered at higher data rates. To compensate this effect, you need to deploy super low-loss components in all areas of the link so that flexibility can be maintained without compromising performance.

IANOS MTP-LC Transition Modules

Ordering information

Description	Item no.
Transition module, single size, Base-8, front 4 × LCD adapter aqua, rear 1 × MTP8, non-pinned, adapter body black, shroud gray, key-up/key-down, MM OM3, polarity NS	85072938
Transition module, double size, Base-8, front 12 × LCD adapter aqua, rear 3 × MTP8, non-pinned, adapter body black, shroud gray, key-up/key-down, MM OM3, polarity NS	85072954
Transition module, single size, Base-8, front 4 × LCD adapter heather violet, rear 1 × MTP8, non-pinned, adapter body black, shroud gray, key-up/key-down, MM OM4, polarity NS	85072939
Transition module, double size, Base-8, front 12 × LCD adapter heather violet, rear 3 × MTP8, non-pinned, adapter body black, shroud gray, key-up/key-down, MM OM4, polarity NS	85072955
Transition module, single size, Base-8, front 4 × LCD adapter blue, rear 1 × MTP8, non-pinned, adapter body green, shroud gray, key-up/key-down, SM OS2 UPC, polarity NS	85072940
Transition module, double size, Base-8, front 12 × LCD adapter blue, rear 3 × MTP8, non-pinned, adapter body green, shroud gray, key-up/key-down, SM OS2 UPC, polarity NS	85072956

Ordering information

Description	Item no.
Transition module, single size, Base-12, front 6 × LCD adapter aqua, rear 1 × MTP12, pinned, adapter body black, shroud black, key-up/key-down, MM OM3, polarity AS	85072942
Transition module, single size, Base-12, front 6 × LCD adapter aqua, rear 1 × MTP12, pinned, adapter body black, shroud black, key-up/key-down, MM OM3, polarity AP	85072943
Transition module, double size, Base-12, front 12 × LCD adapter aqua, rear 2 × MTP12, pinned, adapter body black, shroud black, key-up/key-down, MM OM3, polarity AS	85072957
Transition module, double size, Base-12, front 12 × LCD adapter aqua, rear 2 × MTP12, pinned, adapter body black, shroud black, key-up/key-down, MM OM3, polarity AP	85072958
Transition module, single size, Base-12, front 6 × LCD adapter heather violet, rear 1 × MTP12, pinned, adapter body black, shroud black, key-up/key-down, MM OM4, polarity AS	85072944
Transition module, single size, Base-12, front 6 × LCD adapter heather violet, rear 1 × MTP12, pinned, adapter body black, shroud black, key-up/key-down, MM OM4, polarity AP	85072945
Transition module, double size, Base-12, front 12 × LCD adapter heather violet, rear 2 × MTP12, pinned, adapter body black, shroud black, key-up/key-down, MM OM4, polarity AS	85072959
Transition module, double size, Base-12, front 12 × LCD adapter heather violet, rear 2 × MTP12, pinned, adapter body black, shroud black, key-up/key-down, MM OM4, polarity AP	85072960

IANOS MTP-LC Transition Modules

Ordering information

Description	Item no.
Transition module, single size, Base-12, front 6 × LCD adapter blue, rear 1 × MTP12, pinned, adapter body green, shroud black, key-up/key-down, SM OS2 UPC, polarity AS	85072946
Transition module, single size, Base-12, front 6 × LCD adapter blue, rear 1 × MTP12, pinned, adapter body green, shroud black, key-up/key-down, SM OS2 UPC, polarity AP	85073356
Transition module, single size, Base-12, front 6 × LCD adapter green, rear 1 × MTP12, pinned, adapter body green, shroud black, key-up/key-down, SM OS2 APC, polarity AS	85073357
Transition module, double size, Base-12, front 12 × LCD adapter blue, rear 2 × MTP12, pinned, adapter body green, shroud black, key-up/key-down, SM OS2 UPC, polarity AP	85073364
Transition module, double size, Base-12, front 12 × LCD adapter blue, rear 2 × MTP12, pinned, adapter body green, shroud black, key-up/key-down, SM OS2 UPC, polarity AS	85072961
Transition module, double size, Base-12, front 12 × LCD adapter green, rear 2 × MTP12, pinned, adapter body green, shroud black, key-up/key-down, SM OS2 APC, polarity AS	85073365
Transition module, double size, Base-12, front 12 × LCD adapter green, rear 2 × MTP12, pinned, adapter body green, shroud black, key-up/key-down, SM OS2 APC, polarity AP	85072962

Ordering information

Description	Item no.
Transition module, double size, Base-24, front 12 × LCD adapter aqua, rear 1 × MTP24, non-pinned, adapter body black, shroud red, key-up/key-down, MM OM3, polarity R1 split fibers per row	85072963
Transition module, double size, Base-24, front 12 × LCD adapter heather violet, rear 1 × MTP24, non-pinned, adapter body black, shroud red, key-up/key-down, MM OM4, polarity R1 split fibers per row	85072964

IANOS Base-12 MTP-SC Transition Module

Characteristics

- Transition double module – 1 x MTP12 to 12 x SC simplex
- Fast and tool-less installation
- Facilitates patching to transceiver
- Compact and robust plastic construction
- Low insertion loss design
- Available in Singlemode APC and Multimode OM4 performance
- Compatible with all IANOS chassis
- Color coded MTP adapters

Technical data

Attribute		Value
Product family		IANOS
Suitable for		All IANOS chassis
Dimensions (W × D × H)		Double module 7.71 × 6.77 × 0.46 in
Material		PC/ABS
Color		black (RAL 9005)
Number of adapters	front	12 x SC simplex
	rear	1 x MTP12
Adapter types	front	SC simplex
	rear	MTP12 Type A (Key Up / Key Down)
Adapter colors	front	Black (SM/APC)/ (MM/OM4/UPC)
	rear	Green adapter with black shroud (MTP12)
Ferrule	SC	zirconia ceramic
	MTP	composite / male gender

Optical data

Attribute	Value
Fiber count	Double module: 12
Fiber type	Singlemode 9/125 µm APC Multimode 50/125 µm OM4
Module insertion loss	SM APC: ≤0.50 dB MM OM4: ≤0.35 dB
Module return loss	SM OS2 APC: ≥60 dB MM OM4: ≥30 dB
Free of halogen	yes
2011/65/EC (RoHS)	fully compliant

IANOS Base-12 MTP-SC Transition Module

Ordering information

Description	Item no.
Base-12 MTP-SC transition double module, SM APC, 1 x MTP12 pinned (rear) - 12 x SC simplex, polarity AS	85083804
Base-12 MTP-SC transition double module, SM APC, 1 x MTP12 pinned (rear) - 12 x SC simplex, polarity AP	85085506
Base-12 MTP-SC transition double module, OM4 UPC, 1 x MTP12 pinned (rear) - 12 x SC simplex, polarity AS	85083808
Base-12 MTP-SC transition double module, OM4 UPC, 1 x MTP12 pinned (rear) - 12 x SC simplex, polarity AP	85085505

IANOS MTP Conversion Modules

Characteristics
- Converts Base-8, 12 and 24 backbones
- Fast and tool-less installation
- Facilitates patching to transceiver
- Available as single module only
- Available in Multimode OM3/OM4 performance
- Compatible with IANOS 1U/ 4U and zero space chassis
- Color coded MTP adapter shrouds by Base-type

IANOS conversion modules provide an easy upgrade path for users who want to convert their pre-installed MTP backbone cables to match new transceiver requirements. This process allows users to get full fiber utilization from their existing backbones. For example, two Base-12 backbone trunks can be converted to three Base-8 MTP connectors (40G SR4) or alternatively they can be converted to a single Base-24 MTP connector (100G SR10).

Technical data

Attribute		Value
Suitable for		all IANOS chassis
Dimensions (W × D × H)		3.8 × 6.5 × 0.5 in
Material		PC/ABS
Color		black (RAL 9005)
Adapter types	front	MTP 8, 12 or 24 (key-up/key-down)
	rear	MTP 8, 12 or 24 (key-up/key-down)
Adapter Colors	front/rear	black adapter with gray shroud (MTP8)
	front/rear	black adapter with black shroud (MTP12)
	front/rear	black adapter with red shroud (MTP24)
Ferrule	MTP	composite (male/female)

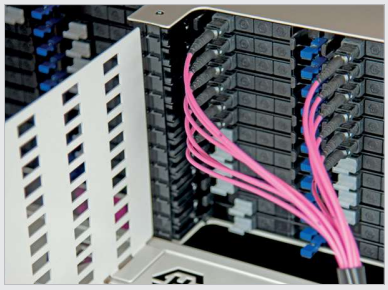
Optical data

Attribute	Value
Fiber type	Multimode 50/125 µm OM3 Multimode 50/125 µm OM4
Module insertion loss	MM OM3: ≤ 0.50 dB MM OM4: ≤ 0.50 dB
Module return loss	MM OM3: ≥ 30 dB MM OM4: ≥ 30 dB

Key Features Conversion Modules

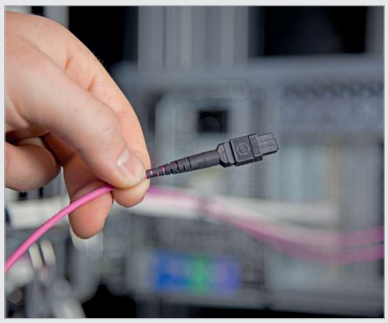
100 % utilization of existing backbone

Conversion modules allow users to reuse their existing backbone cables even though the MTP connectivity does not match their new equipment. Therefore Base-12 backbone cables can be converted to Base-8 or Base-24 depending on the required data rate.



Patch directly to nearby equipment

IANOS conversion modules are the preferred conversion method for many operators because MTP jumpers can be used to connect directly from the module to nearby equipment. Generally the conversion module will have a male connector at the front which allows for female to female patch cords. This makes the management of patch cords easier and prevents any risk of damaging the transceiver with a pinned connector.



IANOS MTP Conversion Modules

Ordering information

Description	Item no.
Conversion module, single size, Base-8, front 1 × MTP24 pinned, adapter body black, shroud red, key-up/key-down, rear 3 × MTP8, non-pinned, adapter body black, shroud gray, key-up/key-down, OM3, polarity S0 split fibers per row	85073360
Conversion module, single size, Base-8, front 1 × MTP24 pinned, adapter body black, shroud red, key-up/key-down, rear 3 × MTP8, non-pinned, adapter body black, shroud gray, key-up/key-down, OM4, polarity S0 split fibers per row	85073361

Ordering information

Description	Item no.
Conversion module, single size, Base-12, front 6 × MTP8 pinned, adapter body black, shroud gray, key-up/key-down, rear 4 × MTP12, pinned, adapter body black, shroud black, key-up/key-down, OM3, polarity S2 split fibers per row	85072948
Conversion module, single size, Base-12, front 6 × MTP8 pinned, adapter body black, shroud gray, key-up/key-down, rear 4 × MTP12, pinned, adapter body black, shroud black, key-up/key-down, OM4, polarity S2 split fibers per row	85072951
Conversion module, single size, Base-12, front 2 × MTP24 pinned, adapter body black, shroud red, key-up/key-down, rear 4 × MTP12, pinned, adapter body black, shroud black, key-up/key-down, OM4, polarity S1 split fibers per row	85072949
Conversion module, single size, Base-12, front 2 × MTP24 pinned, adapter body black, shroud red, key-up/key-down, rear 4 × MTP12, pinned, adapter body black, shroud black, key-up/key-down, OM3, polarity S1 split fibers per row	85073362

Ordering information

Description	Item no.
Conversion module, single size, Base-24, front 6 × MTP8 pinned, adapter body black, shroud gray, key-up/key-down, rear 2 × MTP24, non-pinned, adapter body black, shroud red, key-up/key-down, OM3, polarity S4 split fibers per row	85072950
Conversion module, single size, Base-24, front 6 × MTP8 pinned, adapter body black, shroud gray, key-up/key-down, rear 2 × MTP24, non-pinned, adapter body black, shroud red, key-up/key-down, OM4, polarity S4 split fibers per row	85072953


A3 A4
B3 B4
C3 C4
D3 D4
E3 E4
F3 F4
G3 G4
H3 H4
I3 I4
J3 J4

IANOS Splicing Modules

Characteristics

- 24 LC splicing /12 SC splicing
- Fast splicing and reduced coiling time
- Cover with fiber identification
- Quick access to fiber
- Fast cable attachement for incoming cables (2, 3 and 5 mm)
- Suitable for 5 mm conduit
- Bend radius control throughout (min. 1.2 in)
- Fiber over-length storage with integral heat shrink or optional sandwich splice comb
- Available in Singlemode OS2 and Multimode OM3/OM4 performance
- Compatible with IANOS 1U/4U and zero space chassis
- Color coded LC adapters by performance
- 24 individual or 4 ribbon heat shrink splices

Technical data

Attribute		Value
Suitable for		chassis/zero space chassis
Dimensions (W × D × H)		5.1 × 5.4 × 1.9 in
Material		PC/ABS
Color		black (RAL 9005)
Adapter types	front	LC duplex SC simplex
	rear	cable fixation
Adapter Colors	front	blue (SM/UPC) green (SM/APC) aqua (MM/OM3) heather violet (MM/OM4)
	rear	n/a
Ferrule	LC/SC	zirconia ceramic

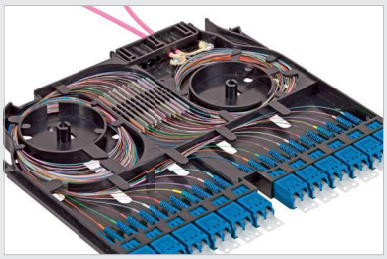
Optical performance

Type	Measurement method (IL/RL)	IL (dB)	RL (dB)
SM UPC	IL: IEC 61300-3-4 method B	≤ 0.30	≥ 50
SM APC	RL: IEC 61300-3-6	≤ 0.30	≥ 65
MM OM3	IL: IEC 61300-3-34 method B	≤ 0.25	≥ 35
MM OM4	RL: IEC 61300-3-6	≤ 0.15	≥ 35

Key Features Splicing Modules

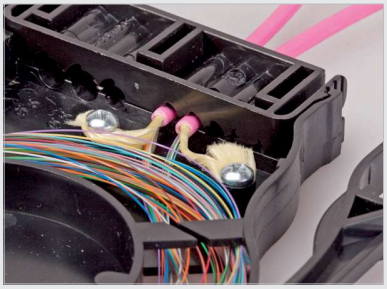
Clear routing and separation of incoming and outgoing fibers

The IANOS splicing module incorporates two independent storage areas which keep incoming and outgoing fibers separate from each other. This feature simplifies the splicing process and reduces the time required for installation and maintenance.



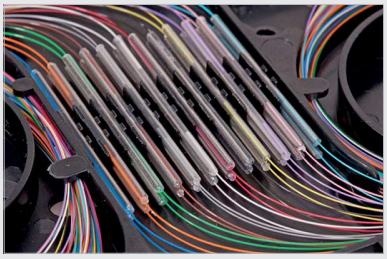
Fast cable attachement

The IANOS splicing module allows users to attach cables simply by clamping the outer jacket of the cable. This innovative feature eliminates the need for cable ties or other wrap-around ties that can cause damage to the cable. Additional kevlar fixation is available inside the module to provide additional strain relief and security. The IANOS module is designed for HUBER+SUHNER cable systems with a diameter of 2 mm, 3 mm and 5 mm. Protective conduit can also be fixed to the rear of the module if required.



Up to 24 heat-shrink splices per module

The IANOS splicing module is a double module which facilitates the fusion splicing of 24 individual heat or 4 ribbon heat shrink splices. The splicing module is suitable for all HUBER+SUHNER 8, 12 and 24 strand cables.



IANOS Splicing Modules

Ordering information

Description	Item no.
Splice module, double size, Base-2, front 12 × LC duplex adapter blue (SM/UPC)	85072934
Splice module, double size, Base-2, front 12 × LC duplex adapter green (SM/APC)	85072935
Splice module, double size, Base-2, front 12 × LC duplex adapter aqua (MM/OM3)	85072936
Splice module, double size, Base-2, front 12 × LC duplex adapter heather violet (MM/OM4)	85072937
Splice module, double size, Base-1, front 12x SC simplex adapter black (SM/APC)	85083807
Splice module, double size, Base-1, front 12x SC simplex adapter black (SM/UPC)	85083806
Splice module, double size, Base-1, front 12x SC simplex adapter black (MM/OM4)	85083803