



PRIMECENTER M1 Racks

16U/24U/42U

System configurator and order-information guide

April 2013

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PRIMERGY Server

Configuration and order process informations

This document contains technical background information for the installation of servers and components into the new PRIMECENTER M1 Racks.

Please use the latest version of System-Architect for configuration.
The System-Architect, a configuration tool with graphical user interface, enables you to gain an overview over the required configuration even while planning the system.
A simultaneous examination of consistence ensures completeness and functionality of the required system.

For the latest tools please go to:
<http://extranet.fujitsu-siemens.com/fsc/products/configuration/main-e.htm>

Further information in the internet see:
<http://manuals.ts.fujitsu.com/file/10276/pcrm1-um-en.pdf> (internet)
http://ts.fujitsu.com/products/standard_servers/rack_technology/index.html (internet)
https://partners.ts.fujitsu.com/com/order-supply/configurators/primergy_config/current/Pages/default.aspx (extranet)

With your rack order, please absolutely send the Rack-Architect picture and the filled-in cable plan.

Additionally to each rack-order the rack-check list has to be filled in, see:

<http://configurator.ts.fujitsu.com/public/information/Rack-Checkliste.xls>

Please send your desired configuration from the rack architect and the form sheet for external connections and hard disk configurations with the respective order numbers additionally to your order in SAP.

You can e-mail it to the following address (.xls or .sar):

To: Fujitsu Technology Solutions GmbH
CL OM Zentral Functions
Konfig-Team

Tel no. +49 (0) 821 / 804-3362
e-mail: rack-check@ts.fujitsu.com

Rack assembly at customer site:

The 16U, 24U and 42 new PRIMECENTER M1 racks will be delivered fully equipped if the service "**rackmounting ex factory**" (SNP:SY-F1647E301-P) was ordered for each server and subsystem.

The on-site service has to be requested for power installation in racks for server installation at the customers site. This service is not included in the price of the rack.

Rack-configurations with systems in asymmetrical PCR M1 - 700mm x 1050mm

S26361-K827-V120
Fujitsu PCR M1 724A
 (PRIMECENTER Rack M1 24U)
 Basic cabinet (1,203mm) according to protection type IP20 with side panels, front- and twin back-door lockable.
 Asymmetrical large basic cabinet with 740mm post distance.

Mounting frame 2x 2U vertical.
 Outlets for external cabling, cable outlets to below, and one rear door.
 Addition of several racks without accessory, no personal variation.
 Basic rack without power connection; refer to part H/I for further informations and order numbers (connection concepts).
HxWxD = 1203 x 700 x 1050 mm
including:
 - installation preparation
 - packing/shock-pallet
 - accessory pack including:
 Accessory pack with various installation material
 Manual German / English

S26361-K827-V140
Fujitsu PCR M1 742A
 (PRIMECENTER Rack M1 42 U)
 Basic cabinet (2,003 mm) according to protection type IP20 with side panels, front- and twin back-door lockable.
 Asymmetrical large basic cabinet with 740mm post distance.

Mounting frame 3x 2U vertical.
 Outlets for external cabling, cable outlets to the top, below, and one rear door.
 Addition of several racks without accessory, no personal variation.
 Basic rack without power connection; refer to part H/I for further informations and order numbers (connection concepts).
HxWxD = 2003 x 700 x 1050 mm
including:
 - installation preparation
 - packing/shock pallet
 - accessory pack including:
 Accessory pack with various installation material
 Manual German / English

To avoid order problems, please send along the picture of the system-architect.

A

i **Front mounting frame left - asymmetrical.**
 This mounting frame allows vertical installation of 19" components; e.g. 6x1U in 42U or 4x1U in 24U with a depth less than 300 mm incl. cabling and less 3.5kg per height unit.
 For sideward mounting you can use e.g. console switches, rack management systems etc. Mounting brackets must come with the components.
 Free space has to be filled with dummy panels.

i **Rack Options PCR M1 - S26361-...**
...F4530-L210 Tilting Protection Pull Out PCR M1
Must be ordered with the rack if telescopic rails are used!
No mounting ex factory - loose delivery!
 ...-F4530-L250 Brush Panel Kit (2pcs) Top Cover PCR M1 42U (release in 08/2011)
 ...-F4530-L260 Brush Panel Kit Rear Door PCR M1 (release in 09/2011)
 ...-F4530-L6 Earthing Kit PCR M1
 ...-F4530-L131 Dummy panel 1U plast. Bk
 ...-F4530-L132 Dummy panel 2U plast. Bk

i **Rack Options PCR M1 - Support Brackets**
 For horizontal mounting of 19-inch rack systems, an asymmetrical rack requires support brackets (depending on weight and height of mounted system) to compensate the asymmetric post.
 Please have a look to system configurator.
Rack Options PCR M1 - S26361-
 Other rack options used for PRIMECENTER S2 racks also, please look to sektion B "Accessories"

i **Mounting lateral CM S26361-F2735-E7/L7**
 not possible in high unit 16, 24 or 42
 Highest start position for 2U systems:
 HU14, 22 or 40 in asymmetrical racks.

Rack-configurations with systems in symmetrical PCR M1 - 700mm x 1050mm

S26361-K827-V220
Fujitsu PCR M1 724S
 (PRIMECENTER Rack M1 24U)
 Basic cabinet (1,203mm) according to protection type IP20 with side panels, front- and twin back-door lockable. Symmetrical large basic cabinet with 740mm post distance.
 2 vertical mounting frames 19" 1U, 1 each left/right from horiz. 19" area.
 Outlets for external cabling, cable outlet to below, and one rear door.
 Addition of several racks without accessory, no personal variation.
 Basic rack without power connection; refer to part H/I for further informations and order numbers (connection concepts).
HxWxD = 1203 x 700 x 1050 mm
including:
 - installation preparation
 - packing/shock-pallet
 - accessory pack including:
 Accessory pack with various installation material
 Manual German / English

S26361-K827-V240
Fujitsu PCR M1 742S
 (PRIMECENTER Rack M1 42 U)
 Basic cabinet (2,003 mm) according to protection type IP20 with side panels, front- and twin back-door lockable. Symmetrical large basic cabinet with 740mm post distance.
 4 vertical mounting frames 19" 1U, 2 each left/right from horiz. 19" area.
 Outlets for external cabling, cable outlet to the top, below, and one rear door.
 Addition of several racks without accessory, no personal variation.
 Basic rack without power connection; refer to part H/I for further informations and order numbers (connection concepts).
HxWxD = 2003 x 700 x 1050 mm
including:
 - installation preparation
 - packing/shock pallet
 - accessory pack including:
 Accessory pack with various installation material
 Manual German / English

Front mounting frame left - symmetrical.
 This mounting frame allows vertical installation of 19" components; e.g. 4x1U in 42U or 2x1U in 24U with a depth less than 300 mm incl. cabling and less 3.5kg per height unit, left or right from 19" area. For sideward mounting left or right side you can use e.g. console switches, rack management systems etc. Mounting brackets must come with the components.
 Free space has to be filled with dummy panels.

Rack Options PCR M1 - S26361-...
...F4530-L210 Tilting Protection Pull Out PCR M1
Must be ordered with the rack if telescopic rails are used!
No mounting ex factory - loose delivery!
 ...-F4530-L250 Brush Panel Kit (2pcs) Top Cover PCR M1 42U
 ...-F4530-L260 Brush Panel Kit Rear Door PCR M1
 ...-F4530-L6 Earthing Kit PCR M1
 ...-F4530-L131 Dummy panel 1U plast. Bk
 ...-F4530-L132 Dummy panel 2U plast. Bk

Rack Options PCR M1 - S26361-
 Other rack options used for PRIMECENTER racks please look to sektion B "Accessories"

To avoid order problems, please send along the picture of the system-architect.

A

Rack-configurations with systems in symmetrical PCR M1 - 600mm x 1050mm

<p>S26361-K827-V310 Fujitsu PCR M1 616S (PRIMECENTER Rack M1 16U) Basic cabinet (842mm) according to protection type IP20 with side panels, front- and twin back-door lockable. Symmetrical large basic cabinet with 740mm post distance.</p> <p>Outlets for external cabling, cable outlet to below, and one rear door.</p> <p>Addition of several racks without accessory, no personal variation. Basic rack without power connection; refer to part H/I for further informations and order numbers (connection concepts). HxWxD = 847 x 600 x 1050 mm including: - installation preparation - packing/shock-pallet - accessory pack including: Accessory pack with various installation material Manual German / English</p>	<p>S26361-K827-V320 Fujitsu PCR M1 624S (PRIMECENTER Rack M1 24U) Basic cabinet (1,203mm) according to protection type IP20 with side panels, front- and twin back-door lockable. Symmetrical large basic cabinet with 740mm post distance.</p> <p>Outlets for external cabling, cable outlet to below, and one rear door.</p> <p>Addition of several racks without accessory, no personal variation. Basic rack without power connection; refer to part H/I for further informations and order numbers (connection concepts). HxWxD = 1203 x 600 x 1050 mm including: - installation preparation - packing/shock-pallet - accessory pack including: Accessory pack with various installation material Manual German / English</p>	<p>S26361-K827-V340 Fujitsu PCR M1 642S (PRIMECENTER Rack M1 42 U) Basic cabinet (2,003 mm) according to protection type IP20 with side panels, front- and twin back-door lockable. Symmetrical large basic cabinet with 740mm post distance.</p> <p>Outlets for external cabling, cable outlet to the top, below, and one rear door.</p> <p>Addition of several racks without accessory, no personal variation. Basic rack without power connection; refer to part H/I for further informations and order numbers (connection concepts). HxWxD = 2003 x 600 x 1050 mm including: - installation preparation - packing/shock pallet - accessory pack including: Accessory pack with various installation material Manual German / English</p>
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To avoid order problems, please send along the picture of the system-architect.

A

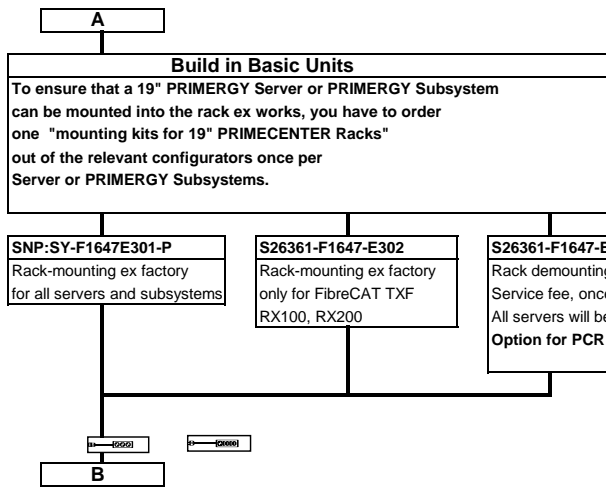
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<p>Rack Options PCR M1 - S26361-...</p> <p>...F4530-L210 Tilting Protection Pull Out PCR M1 Must be ordered with the rack if teleskopik rails are used! No mounting ex factory - loose delivery!</p> <p>...-F4530-L250 Brush Panel Kit (2pcs) Top Cover PCR M1 42U</p> <p>...-F4530-L260 Brush Panel Kit Rear Door PCR M1</p> <p>...-F4530-L6 Earthing Kit PCR M1</p> <p>...-F4530-L131 Dummy panel 1U plast. Bk</p> <p>...-F4530-L132 Dummy panel 2U plast. Bk</p>



<p>Rack Options PCR M1 - S26361-</p> <p>Other rack options used for PRIMECENTER S2 racks also, please look to sektion B "Accessories"</p>
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For PRIMERGY Servers equal or higher than S4 generation, RMK's and cable management can be ordered as options. Please see related system configurators!



For easier transportation racks above 250kg can be delivered without installed systems. Service fee S26361-F1647-E100 has to be ordered once per rack.



This service has to be ordered once per installable server/ storage subsystem, in order to get the server / storage subsystem mounted into the PRIMECENTER rack.



For servers or storage subsystems to be installed on customer site into an asymmetrical PRIMECENTER rack for each system an adapter angle has to be ordered according to size and weight of the 19" component:
S26361-F2735-L10 for systems up to 25kg / max. 2U
S26361-F2735-L15 for systems up to 35kg / max. 5U
S26361-F2735-L31 or systems up to 50kg / max. 5U

Depending on rail type choose a suitable cable management for usage with telescopic rails

B Rack Accessories

S26361-F4530-E6
Earthing Kit PCR M1 + ass.
 for earthing of cabinet, accessories and doors according to VDE 0100 part 540. Cabels to connect all conductive parts to the designated points are included.
 Earthing set is optional and is according to the standard not necessary.
 max. 1x per rack

S26361-F4530-L6
Earthing Kit PCR M1
 As loose delivery to upgrade at the customer.
 Earthing connectors are already available in the rack.

S26361-F4530-E131
 Dummy panel plast. Bk, 1 U + assembly

The dummy panels can also be used for vertical mounting frames

S26361-F4530-E132
 Dummy panel plast. Bk, 2 U + assembly

S26361-F4530-L13*
 for bulk ware orders

S26361-F1609-E35
 Device base plate, 680mm deep including dummy panel 1U and adapter angle 50 kg+ mounting kit for PCR-/ 3rd party racks

S26361-F1609-L35
 For add-on components, which comes additionally in the rack.
 Please notice necessary high units!

S26361-F2735-E20
 Cable carrying tray for asym. PC Racks additional tray for sidewise routing and filing of cable bulks

S26361-F2735-L20
 For sidewise filing of cable bulks **only for asymmetrical PRIMECENTER racks, no U needed**

S26361-F2735-E25
 Cable carrying plate 1U with dust cover installation horizontal and vertically possible

S26361-F2735-L25
 In order to route cables into a rack from front to rear of the rack also suitable for patch panels

0-6999

S26361-F2201-E20
 Cable arm for 2U servers or higher for PRIMERGY server RMKs w/o CMA adapter in symmetrical PCR M1 or in 3rd party racks.

S26361-F2201-L20
 Orderable as an option.
 Cable arm solution for 2U servers or higher for PRIMECENTER or 3rd party racks.
 Not usable for Drop-in-RMKs with CMA adapter.

S26361-F2735-E8
1U cable arm, hauled
 Been suitable for the application also with 1U server into PRIMECENTER rack Serves as a substitute of the actual cable management arm for 3rd party racks (S26361-F2201-L20)
 Is mountable in the right plinth as well as in the left plinth of the racks.
 max. 1x per height unit (U)

S26361-F2735-L8
1U cable arm, hauled
 As loose delivery to upgrade at the customer.
 Not usable for Drop-in-RMKs with CMA adapter.

see register general rack accessories also

C

C Rack Console (Keyboard, Mouse, Monitor)

S26361-K1387-V100
Rack console RC25 (1U)
 17" TFT monitor with slide-in
 incl. keyboard DE/INT with touchpad,
 (Layout in german and US english)
 and RMK D/P/3rd P Racks telescopic rails
 Depth-variable from 708-786mm +/-2mm
 connection KB/Touchpad over PS/2 (2x)
 or USB (1x optional) is supported.
 VGA-/ PS2-and USB-cable, part of
 delivery (3m)

Country specific version of RC25
 German / US Englisch
S26361-K1387-V100 RC25 1U TFT, KB GE/US
 US, Englisch
S26361-K1387-V200 RC25 1U TFT, KB US
 US, Russian (Cyrillic)
S26361-K1387-V250 RC25 1U TFT, KB US RU
 UK, Englisch
S26361-K1387-V300 RC25 1U TFT, KB UK
 French
S26361-K1387-V350 RC25 1U TFT, KB TR
 Turkish
S26361-K1387-V400 RC25 1U TFT, KB F
 Spanish
S26361-K1387-V500 RC25 1U TFT, KB E
 Italian
S26361-K1387-V600 RC25 1U TFT, KB I
 Portuguese
S26361-K1387-V650 RC25 1U TFT, KB PT
 Danish
S26361-K1387-V700 RC25 1U TFT, KB DK
 Swedish
S26361-K1387-V750 RC25 1U TFT, KB SW
 Belgian
S26361-K1387-V800 RC25 1U TFT, KB B
 Japan
S26361-K1387-V900 RC25 1U TFT, KB B



T26139-Y1742- L10
 Grey power cord 1,8m for RC25
 only for direct deliveries
 to USA / CAN.



New global analog KVM s3
 switches can be mounted behind
 RC25 in order to save rack space
 refer to KVM section

SNP:KB-Y2607E180-P
 VGA-extension cable 1,8 m + assembly

T26139-Y2691-C180
 for single order of the
 VGA-extension cable 1,8 m



Only to be selected for
 Monitor installation set if no
 console switch is required

D

D Global KVM s3 / s4 switches

Analogue KVM S3 Switches

S26361-F4473-E601
Console Switch KVM s3-1601
16-port with OSD, multi-platformable
1x local, 0x IP, 1U, cascadable
 for connecting 16 servers to a monitor and a keyboard with an integrated touchpad or a keyboard and mouse.
 Wiring over UTP CAT5,
 Connection at servers with USB, PS/2
 - 19" fixture (Installation horizontal and vertically possible)
 - User manual in english
 for the connection of 16 servers in the Non Blocking Mode or cascaded with other switches in Blocking Mode. (Cascading with S* series is permitted.)
 There are one local consoles in the rack connectably.
Occupies 1U in the Rack

S26361-F4473-E801
Console Switch KVM s3-0801
8-port with OSD, multi-platformable
1x local, 0x IP, 1U, cascadable
 for connecting 8 servers to a monitor and a keyboard with an integrated touchpad or a keyboard and mouse.
 Wiring over UTP CAT5,
 Connection at servers with USB, PS/2
 - 19" fixture (Installation horizontal and vertically possible)
 - User manual in english
 for the connection of 8 servers in the Non Blocking Mode or cascaded with other switches in Blocking Mode. (Cascading with S* series is permitted.)
 There are one local console in the rack connectably.
Occupies 1U in the Rack

S26361-F4473-L801
S26361-F4473-L601
 for single order of the KVM s3- switch series

T26139-Y1742- L10
 Grey power cord 1,8m for KVM Switch. Only for direct deliveries to USA / CAN.

S26361-F4473-E691
Console Switch KVM s3-1601
for integration behind RC25
Occupies 0U in the Rack
max. 1x per rack

S26361-F4473-E891
Console Switch KVM s3-0801
for integration behind RC25
Occupies 0U in the Rack
max. 1x per rack

S26361-F4473-L25
 Integration kit RC25 plus standard -L number of KVM switch for RC25 integration; same switch but 0U

S26361-F4473-E25
 Integration kit RC25

Digital KVM s4 over IP Switches

S26361-K1393-V8
Console Switch KVM s4-0812 VM
8-port with OBWI, multi-platformable
1x local, 2x IP, 1U, cascadable
 for connecting 8 servers to a monitor and a keyboard with an integrated touchpad or a keyboard and mouse.
 Wiring over UTP CAT5,
 Connection at servers with USB or PS/2
 - KVM s4-Client SW for remote access over LAN, is included in the scope of supply.
 - 16 bit video compression
 - Virtual Media support via USB 2.0
 all USB 2.0 media released for PRIMERGY server are allowed, local or remote including USB boot
 KVM s3 USB2.0 adapter must be used
 - LDAP support
 - 19" fixture (Installation horizontally and vertical possible)
 - User manual in EN, DE, JP, SP, IT, FR
 for the connection of 8 servers in the Non Blocking Mode or cascaded with other switches in Blocking Mode. (Cascading with Sx series is permitted.)
 Please provide LAN connection with 100/1000 KVM data are digitized and will be available over LAN.
 A local console is likewise connectable.
Simultaneously use of both access options

S26361-K1393-V16
Console Switch KVM s4-1622 VM
16-port with OBWI, multi-platformable
2x local, 2x IP, 1U, cascadable
 for connecting 16 servers to a monitor and a keyboard with an integrated touchpad or a keyboard and mouse.
 Wiring over UTP CAT5,
 Connection at servers with USB or PS/2
 - KVM s4-Client SW for remote access over LAN, is included in the scope of supply.
 - 16 bit video compression
 - Virtual Media support via USB 2.0
 all USB 2.0 media released for PRIMERGY server are allowed, local or remote including USB boot
 KVM s3 USB2.0 adapter must be used
 - LDAP support
 - 19" fixture (Installation horizontally and vertical possible)
 - User manual in EN, DE, JP, SP, IT, FR
 for the connection of 16 servers in the Non Blocking Mode or cascaded with other switches in Blocking Mode. (Cascading with Sx series is permitted.)
 Please provide LAN connection with 100/1000 KVM data are digitized and will be available over LAN.
 A local console is likewise connectable.
Simultaneously use of both access options

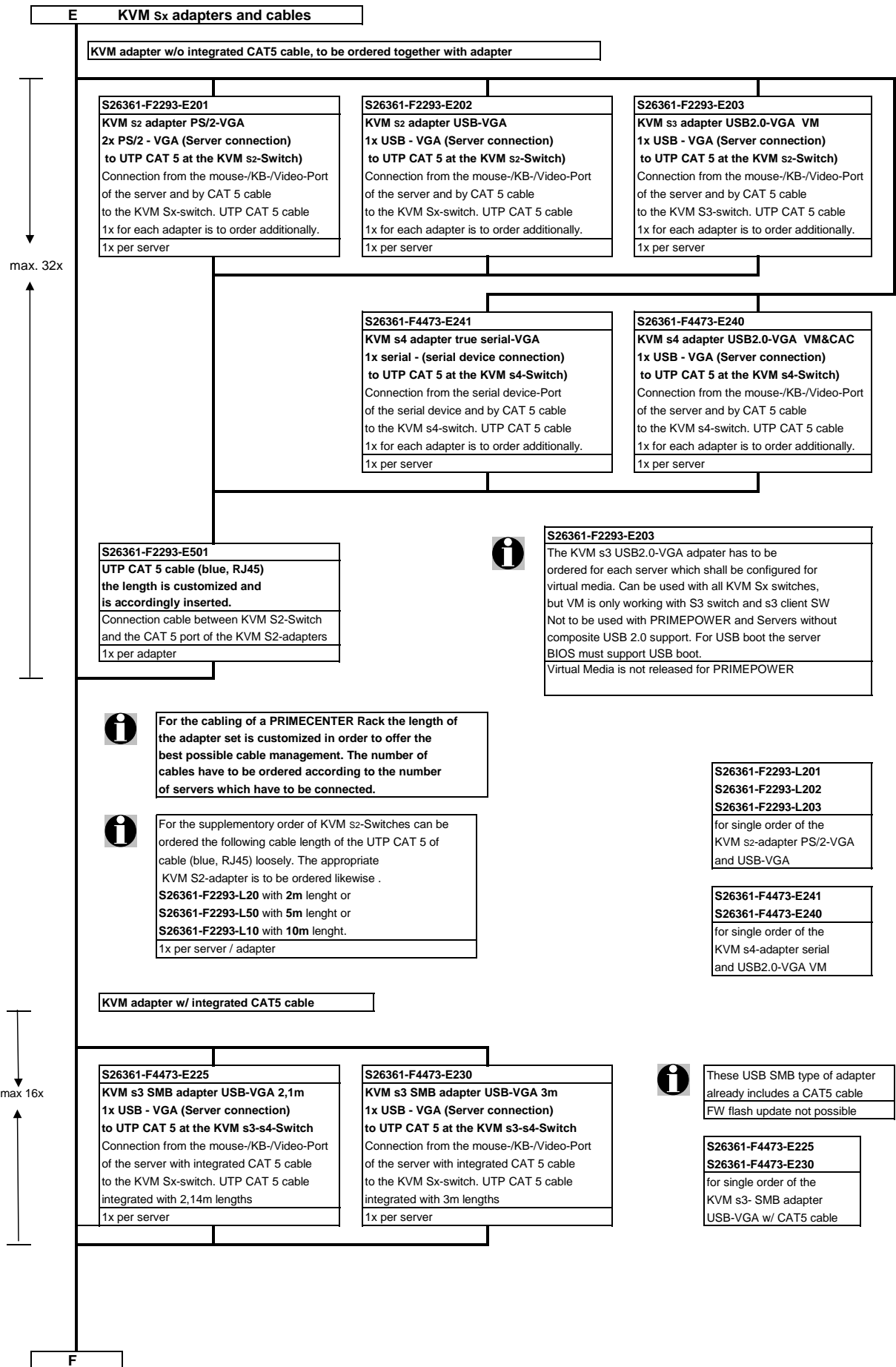
S26361-K1393-V32
Console Switch KVM s4-3242 VM
32-port with OBWI, multi-platformable
2x local, 4x IP, 1U, cascadable
 for connecting 32 servers to a monitor and a keyboard with an integrated touchpad or a keyboard and mouse.
 Wiring over UTP CAT5,
 Connection at servers with USB or PS/2
 - KVM s4-Client SW for remote access over LAN, is included in the scope of supply.
 - 16 bit video compression
 - Virtual Media support via USB 2.0
 all USB 2.0 media released for PRIMERGY server are allowed, local or remote including USB boot
 KVM s3 USB2.0 adapter must be used
 - LDAP support
 - 19" fixture (Installation horizontally and vertical possible)
 - User manual in EN, DE, JP, SP, IT, FR
 for the connection of 32 servers in the Non Blocking Mode or cascaded with other switches in Blocking Mode. (Cascading with Sx series is permitted.)
 Please provide LAN connection with 100/1000 KVM data are digitized and will be available over LAN.
 A local console is likewise connectable.
Simultaneously use of both access options

Cascading of KVM s2 /s3 and KVM s4- switch series is generally possible, whereby the KVM s3 switches must always be at the end of the cascade with s2 switches.
 KVM s4-3242/1622/0812 on top of KVM s3-1601/-0801
 KVM s4-3242/1622/0812 on top of KVM s2-1602/-0801
 KVM s3-1601/0801 on top of KVM s3-1601/-0801
 KVM s3-1601/0801 on top of KVM s2-1602/-0801

Cascading of the KVM S2 switches among themselves will be done only with the help of a UTP CAT 5 cable (ARI-port) (S26361-F2293-E501)

For cascading with analogue S3 switches the KVM s2-adapters and the UTP CAT 5 cables (blue, RJ45) are used. These are to be ordered 1x per switch which will be cascaded.

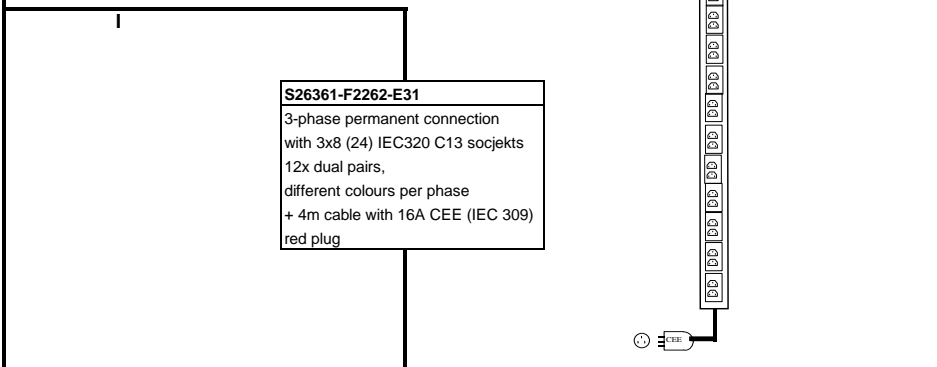
E



F

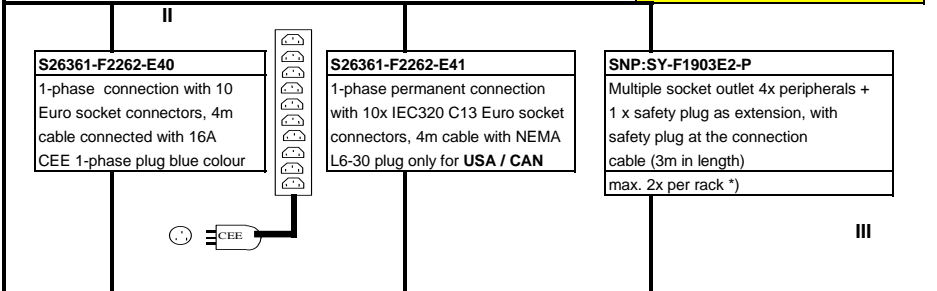
Within the basic units of PRIMECENTER racks, are no power outlets integrated.
It is possible to order such power outlets as follows (1- or 3- phase power outlet), or the connections to the mains can be done via an UPS. In case there is no 16A CEE plug chosen (1-phase solutions is with an 16A CEE plug, while it is choosable with the 3-phase solution), the connection to the mains (line) has to be done as an fix connection from an certified electrician according to the existing regulations.
The maximum current load for each phase may not exceed 16amp (with fixed connection, CEE and safety socket), for each Euro socket connector may 10A not be exceeded.

3-phase power socket outlet 3~240 volt / 16 A



1-phase power socket outlet 1~240 volt / 16A

i Horizontally mounting in symmetrical PRIMECENTER M1 Racks



Extension of the 1/3 phase connection possibilities

*) Consider the power rating!



<p>SNP:SY-F1903E1-P Expansion 3 safety sockets (D) as extension, with 10A Euro socket connector at the connection cable (1,5m in length) 1x per phase of the socket strip I + II</p>	<p>SNP:SY-F1903E2-P Multiple socket outlet 4x peripherals + 1 x safety plug as extension, with safety plug at the connection cable (3m in length) 1x per phase of the socket strip I</p>	<p>Order numbers for bulk delivery S26361-F2262-L31 S26361-F2262-L40 S26361-F2262-L41 SNP:SY-F1903L1-P SNP:SY-F1903L2-P</p>
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Max. number of socket strips:

i

S26361-F2262-E31 max. per rack (*1) 4x 42 U rack 2x 24 U rack

i

S26361-F2262-E40 S26361-F2262-E45 max. per rack (*1) 8x 42 U rack 4x 24 U rack 2x 16 U rack
--

i

SNP:SY-F1903E2-P max. per rack (*1) the Inrush current must not be more than 3,5mA 2x 42 U rack 2x 24 U rack 2x 16 U rack

i **(*1)**
max. socket strips might depend on rack type asym. or symm. and width (700/600mm); for max. no. of socket strips horizontal mounting with 1x S26361-4530-E301/L301 (needs 3U) is required: see rack manual for details.



<http://manuals.ts.fujitsu.com/file/10276/pcrm1-um-en.pdf>

G

G Power Socket Outlets

Within the basic units of PRIMECENTER racks, are no power outlets integrated.
It is possible to order such power outlets as follows (1- or 3- phase power outlet), or the connections to the mains can be done via an UPS. The maximum current load for each phase may not exceed 32amp (IEC309, CEE plugs).
For each Euro socket connector IEC320 C14 may 10A and for IEC320 C20 may 16A not be exceeded.

3-phase power socket outlet 3~240 volt / 32 A



Horizontally mounting in symmetrical PRIMECENTER M1 Racks

S26361-F2262-E332

3-phase permanent connection with 3x3 (9) IEC320 C19 sockets plus 3x2 (6) IEC320 C13 sockets different colours per phase secured by either 16A or 10A circuit breakers + 4m cable with 32A CEE (IEC 309) red plug



S26361-F2262-E301

mounting kit for horizontal mounting in a Rack can carry up to 2 PDU's E332 or as max. as a max. configuration 4x PDU's E132 As a mixed configuration the customer is able to configure 2x E132 and 1x E332 incl. 2x1U cover, support bracket, occupies 2U

1-phase power socket outlet 1~240 volt / 32A



Horizontally mounting in symmetrical PRIMECENTER M1 Racks

S26361-F2262-E132

1-phase connection with 3 IEC320 C19 sockets and 16A circuit breaker plus 2 IEC320 C13 sockets and 10A circuit breaker + 4m cable with 32A CEE (IEC 309) blue plug incl. support brackets for 19" vertical mounting



horizontal mounting occupies 2U(S26361-F2262-E301) this the RMK must be ordered for rear mountig, a support bracket is needed as well for asym. racks.

S26361-F2262-E45

1-phase connection with 8 Euro socket connectors, 4m cable connected with 32A CEE 1-phase (big) plug blue colour
Note: recommended for server > 1200 W

Order numbers for bulk delivery

- S26361-F2262-L332
- S26361-F2262-L132
- S26361-F2262-L45
- S26361-F2262-L301



Horizontally mounting in symmetrical 600 mm PRIMECENTER M1 Racks

Extension of the 1/3 phase connection possibilities

SNP:SY-F1903E1-P

Expansion 3 safety sockets (D) as extension, with 10A Euro socket connector at the connection cable (1,5m in length)
1x per phase of the socket strip I + II

SNP:SY-F1903E2-P

Multiple socket outlet 4x peripherals + 1 x safety plug as extension, with safety plug at the connection cable (3m in length)
1x per phase of the socket strip I

Max. number of socket strips for **vertical** mounting:



S26361-F2262-E132

max. per rack
4x 42 U rack
2x 24 U rack
1x 16 U rack

horizontal mounting only via new designed Rackmount kit S26361-F2262-E301 Socket strip RMK 2U horizontal



S26361-F2262-E332

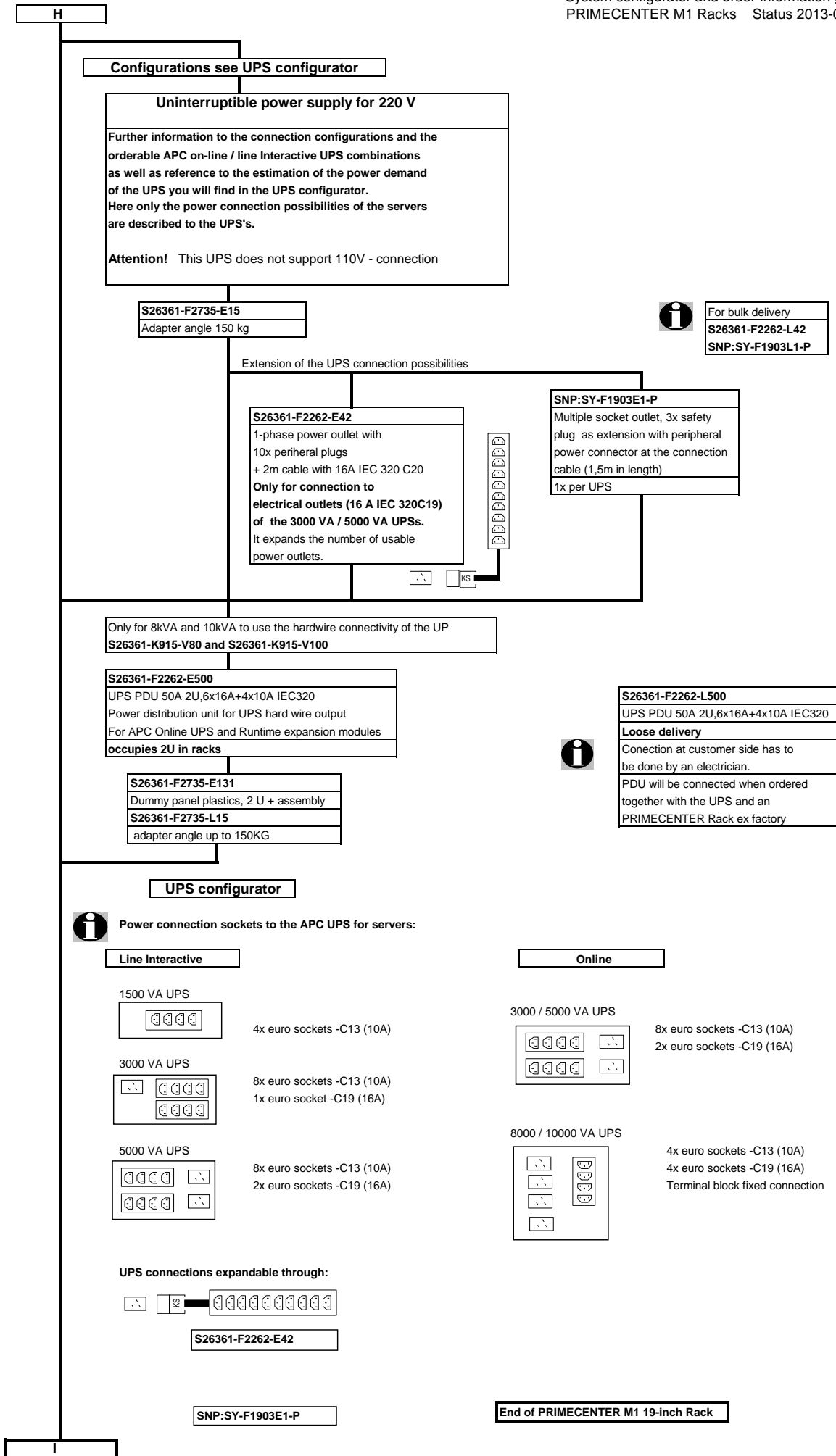
max. per rack
4x 42 U rack
1x 24 U rack
0x 16 U rack

horizontal mounting only via new designed Rackmount kit S26361-F2262-E301 Socket strip RMK 2U horizontal



Horizontally mounting in symmetrical 600 mm PRIMECENTER M1 Racks

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Configurations see UPS configurator

Uninterruptible power supply for 220 V

Further information to the connection configurations and the orderable APC on-line / line Interactive UPS combinations as well as reference to the estimation of the power demand of the UPS you will find in the UPS configurator. Here only the power connection possibilities of the servers are described to the UPS's.

Attention! This UPS does not support 110V - connection

S26361-F2735-E15
Adapter angle 150 kg

i For bulk delivery
S26361-F2262-L42
SNP:SY-F1903L1-P

Extension of the UPS connection possibilities

S26361-F2262-E42
1-phase power outlet with
10x peripheral plugs
+ 2m cable with 16A IEC 320 C20
Only for connection to electrical outlets (16 A IEC 320C19) of the 3000 VA / 5000 VA UPSs.
It expands the number of usable power outlets.

SNP:SY-F1903E1-P
Multiple socket outlet, 3x safety plug as extension with peripheral power connector at the connection cable (1,5m in length)
1x per UPS

Only for 8kVA and 10kVA to use the hardwire connectivity of the UP
S26361-K915-V80 and S26361-K915-V100

S26361-F2262-E500
UPS PDU 50A 2U,6x16A+4x10A IEC320
Power distribution unit for UPS hard wire output
For APC Online UPS and Runtime expansion modules
occupies 2U in racks

S26361-F2262-L500
UPS PDU 50A 2U,6x16A+4x10A IEC320
Loose delivery
Conection at customer side has to be done by an electrician.
PDU will be connected when ordered together with the UPS and an PRIMECENTER Rack ex factory

S26361-F2735-E131
Dummy panel plastics, 2 U + assembly
S26361-F2735-L15
adapter angle up to 150KG

UPS configurator

i Power connection sockets to the APC UPS for servers:

Line Interactive

Online

1500 VA UPS
 4x euro sockets -C13 (10A)

3000 VA UPS
 8x euro sockets -C13 (10A)
1x euro socket -C19 (16A)

5000 VA UPS
 8x euro sockets -C13 (10A)
2x euro sockets -C19 (16A)

3000 / 5000 VA UPS
 8x euro sockets -C13 (10A)
2x euro sockets -C19 (16A)

8000 / 10000 VA UPS
 4x euro sockets -C13 (10A)
4x euro sockets -C19 (16A)
Terminal block fixed connection

UPS connections expandable through:



S26361-F2262-E42

SNP:SY-F1903E1-P

End of PRIMECENTER M1 19-inch Rack

10 GbE Twinax Cabling

TWINAX-Cabling with virtual SFP+ modules

Virtual SFP+ modules	Used in	Supported cables	Comment
V:TWX CONNECTOR -BR (Brocade)	CB VDX 2730 S26361-K1429-Vxxx Ext. Switch Brocade 8000 EBR800 Ext. Switch ICX 6450-24/48 S26361-K1477-V110/V111 Ext. Switch VDX 6720-60 S26361-K1452-V100 Ext. Switch VDX 6720 for DI-Blocks D:VDX6720-16-R-M	S26361-F3873-E500 EBR800-TWX-1M-L EBR800-TWX-3M-L EBR800-TWX-5M-L	Brocade customized Brocade 1m Brocade 3m Brocade 5m
V:TWX CONNECTOR CI (Cisco)	CB FEX B22F S26361-K1440-V100	S26361-F4571-E500 S26361-F4571-L110	Cisco customized
V:TWX CONNECTOR PY (FTS)	CB SB11 S26361-K1304-V101 / V301 10GB LAN controller D2755 S26361-F3629-E2 / E202 / E702 10Gb CNA OCe10102 S26361-F3592-E2 / E202	S26361-F3989-E600 S26361-F3873-E500 EBR800-TWX-1M-L EBR800-TWX-3M-L EBR800-TWX-5M-L S26361-F4571-E500	FTS customized Brocade customized Brocade 1m Brocade 3m Brocade 5m Cisco customized
V:TWX CONNECTOR SP	CB SBAX2 S26361-K1304-V200 / V300 CB Ethernet Pass Thru S26361-K1365-V18 / V318	S26361-F3989-E600 S26361-F3873-E500 EBR800-TWX-1M-L EBR800-TWX-3M-L EBR800-TWX-5M-L	FTS customized Brocade customized Brocade 1m Brocade 3m Brocade 5m

Product number	Connector	Description
V:TWX CONNECTOR-BR	FC TWX 10G connector BR	Twinax Connector Brocade
V:TWX CONNECTOR CI	FC TWX 10G connector CI	Twinax Connector Cisco
V:TWX CONNECTOR PY	FC TWX 10G connector PY	Twinax Connector Primergy
V:TWX CONNECTOR SP	FC TWX 10G connector SBAX	Twinax Connector SBAX2 und PassThru

Rack-specified Twinax-cable for graphical Cabling within the PRIMECENTER M1 Rack:

S26361-F3873-E500	SFP+ activ Twinax Cable Brocade custom	2x FC TWX 10G connector BR
S26361-F3989-E600	SFP+ aktives Twinax Kabel kundenspez.	2x FC TWX 10G connector PY
S26361-F4571-E500	SFP+ passive Twinax Kabel Cisco custom	2x FC TWX 10G connector CI

Twinax-cable for graphical Cabling outside the PRIMECENTER M1 Rack (between racks):

EBR800-TWX-1M-L	SFP+ active Twinax cable BRCD 1m UPG	2x FC TWX 10G connector BR
EBR800-TWX-3M-L	SFP+ active Twinax cable BRCD 3m UPG	2x FC TWX 10G connector BR
EBR800-TWX-5M-L	SFP+ active Twinax cable BRCD 5m UPG	2x FC TWX 10G connector BR
S26361-F4571-L110	SFP+ active Twinax cable Cisco 10m	2x FC TWX 10G connector CI

In Addition the optional configurable Twinax-cable options (not for graphical cabling in systemarchitect usable!)

(to find under chapter "Hardware – Options" of the Blade system units BX900S2 and BX400S1)

S26361-F3873-L501	Brocade 1m
S26361-F3873-L503	Brocade 3m
S26361-F3873-L505	Brocade 5m
S26361-F4571-L101	Cisco 1m
S26361-F4571-L103	Cisco 3m
S26361-F4571-L105	Cisco 5m
S26361-F4571-L107	Cisco 7m
S26361-F3989-L102	FTS 2m
S26361-F3989-L105	FTS 5m
S26361-F3989-L110	FTS 10m

J IB Switch Configuration

S26361-K1413-V136
InfiniBand Switch 36-port 40GB
36 ports with QSFP connectos
up to 40Gb/s per port
Quad Data Rate (QDR)
Fully non blocking architecture
mount on rear side of the rack
2U, 1x PSU installed

S26361-F4526-E10
Redundant PSU for QDR IB Switch
450W Power Supply
max. 1x per QDR IB Switch

S26361-F3996-E500
InfiniBand Cu Cable 40Gb
QSFP, 1 or 3m, customised
max. 36x per QDR IB Switch



If additional length of copper cable or optical cable are needed, then they must be ordered from the cable vendor directly
 For IB cabling ex works an customized IB Cable
 S26361-F3996-E500 will be used (for rackserver in rack)

as soon as available

S26361-K1431-V36
InfiniBand Switch 36-port 56GB
36 ports with QSFP connectos
up to 56Gb/s per port
Fourteen Data Rate (FDR)
Fully non blocking architecture
mount on rear side of the rack
2U, 1x PSU installed

S26361-F4557-E10
Redundant PSU for FDR IB Switch
300W Power Supply
max. 1x per FDR IB Switch

S26361-F3996-E556
InfiniBand Cu Cable 56Gb
QSFP, 1 or 3m, customised
max. 36x per FDR IB Switch



If additional length of copper cable or optical cable are needed, then they must be ordered from the cable vendor directly
 For IB cabling ex works an customized IB Cable
 S26361-F3996-E556 will be used (for rackserver in rack)

End of PRIMECENTER M1 19-inch Rack

IB-Cabling 40Gb (QDR)

PRIMERGY Server	Cable- Nr.	Length	IB-Switch
InfiniBand Controller S26361-F4475-E102/E202 in		1 or 3 m customized	S26361-K1413-V136 max. 36 ports
RX200 S7	● S26361-F3996-E500	X	●
RX/TX300 S7 RX350 S7	● S26361-F3996-E500	X	●
RX600 S6 RX900 S2	● S26361-F3996-E500	X	●
IB ConnectionBlade	● S26361-F3996-E500	X	●
CX122 S1	● S26361-F3996-E500	X	●
CX120 S1 (only E202)	● S26361-F3996-E500	X	●

- InfiniBand QSFP (connector in SA, 1x with E102 and 2x with E202) and to other -F4475-E102/E202

InfiniBand Cu cable 40Gb, customized, order number: S26361-F3996-E500 (for cabling in SA)
 InfiniBand Cu cable 40Gb, l=1m, Order-number: S26361-F3996-L101 (for loose delivery of the IB cable)
 InfiniBand Cu cable 40Gb, l=3m, Order-number: S26361-F3996-L103 (for loose delivery of the IB cable)

Additional informations about cabling

Other Informations about IB cabling / controller releases, see the respective configurator

Please use also the above mentioned selection of 1m and 3m IB Cu cable for the rack-spreading IB-cabling.

IB-Cabling 56Gb (FDR)

PRIMERGY Server	Cable- Nr.	Length	IB-Switch
InfiniBand Controller S26361-F4533-E102/E202 bzw. S26361-F4533-E103/E203 in		1 or 3 m customized	S26361-K1431-V36 max. 36 ports
RX200 S7	● S26361-F3996-E556	X	●
RX/TX300 S7 RX350 S7	● S26361-F3996-E556	X	●
RX500 S7	● S26361-F3996-E556	X	●
IB FDR ConnectionBlade	● S26361-F3996-E556	X	●
CX122 S1	● S26361-F3996-E556	X	●
CX250 S1	● S26361-F3996-E556	X	●
CX270 S1	● S26361-F3996-E556	X	●

- InfiniBand QSFP (connector in SA, 1x with E102 and 2x with E202)

and to other -F4475-E102/E202
or -F4475-E103/E203

InfiniBand Cu cable 56Gb, customized, order number: S26361-F3996-E556 (for cabling in SA)

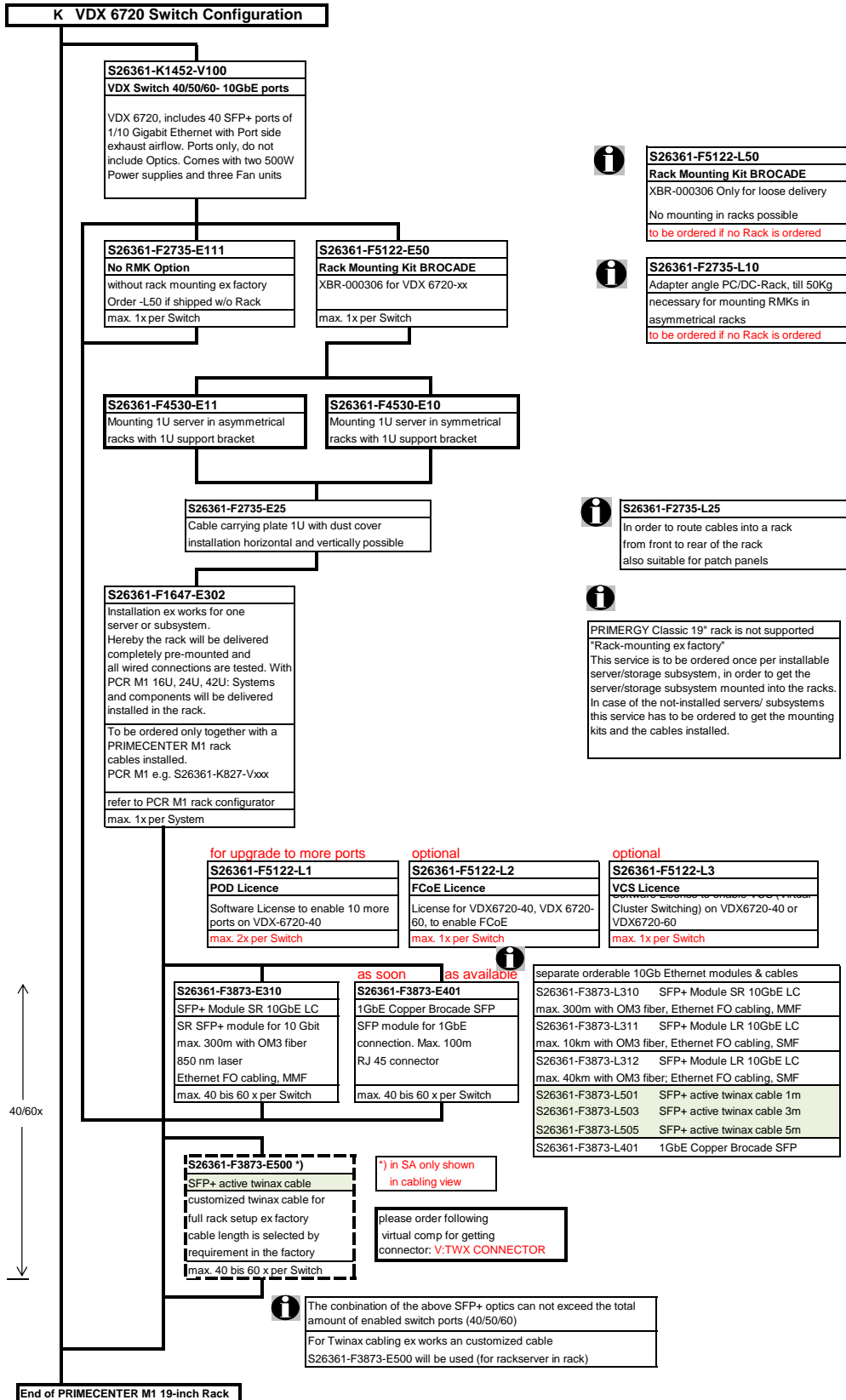
InfiniBand Cu cable 56Gb, l=1m, Order-number: S26361-F3996-L561 (for loose delivery of the IB cable)

InfiniBand Cu cable 56Gb, l=3m, Order-number: S26361-F3996-L563 (for loose delivery of the IB cable)

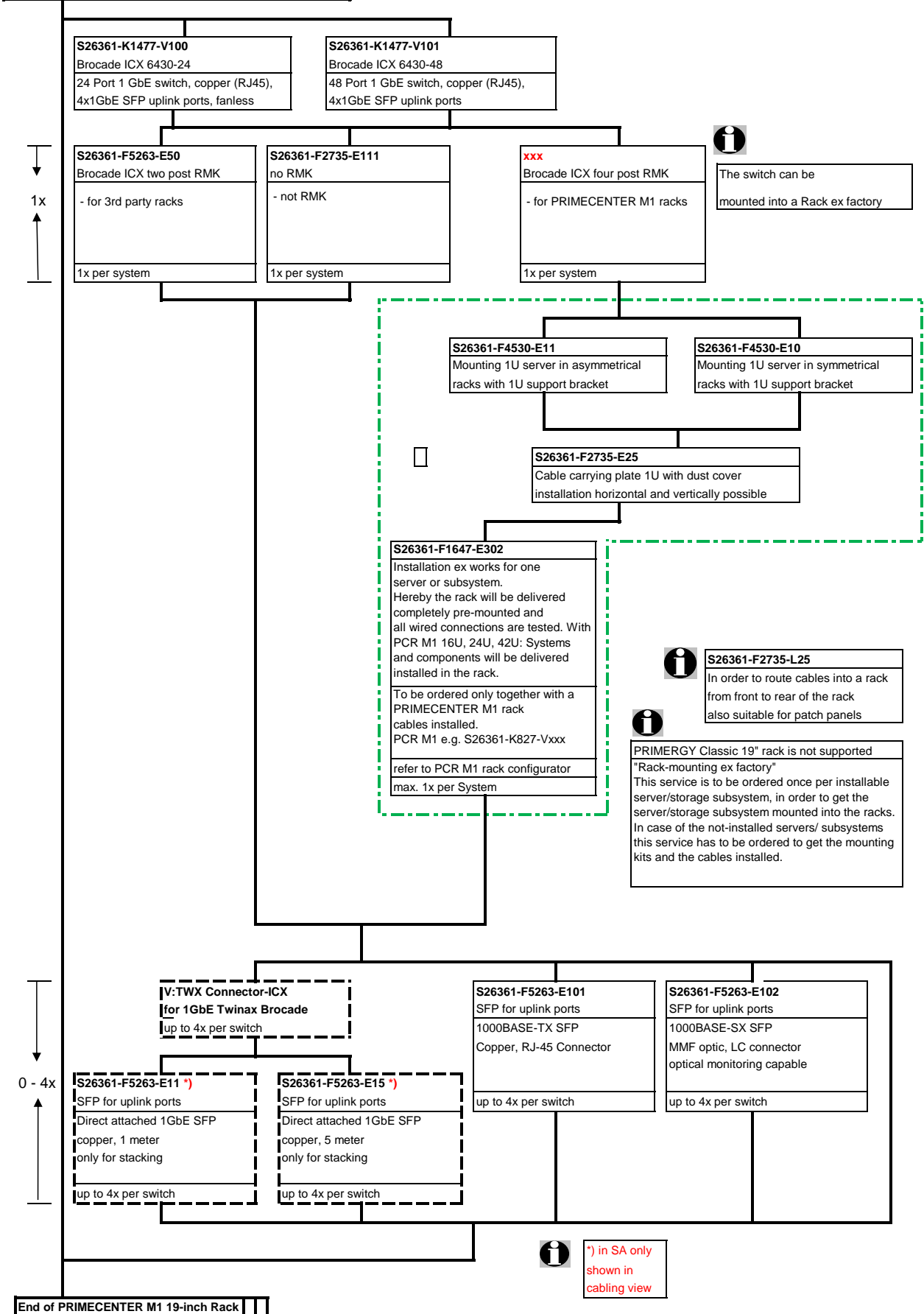
Additional informations about cabling

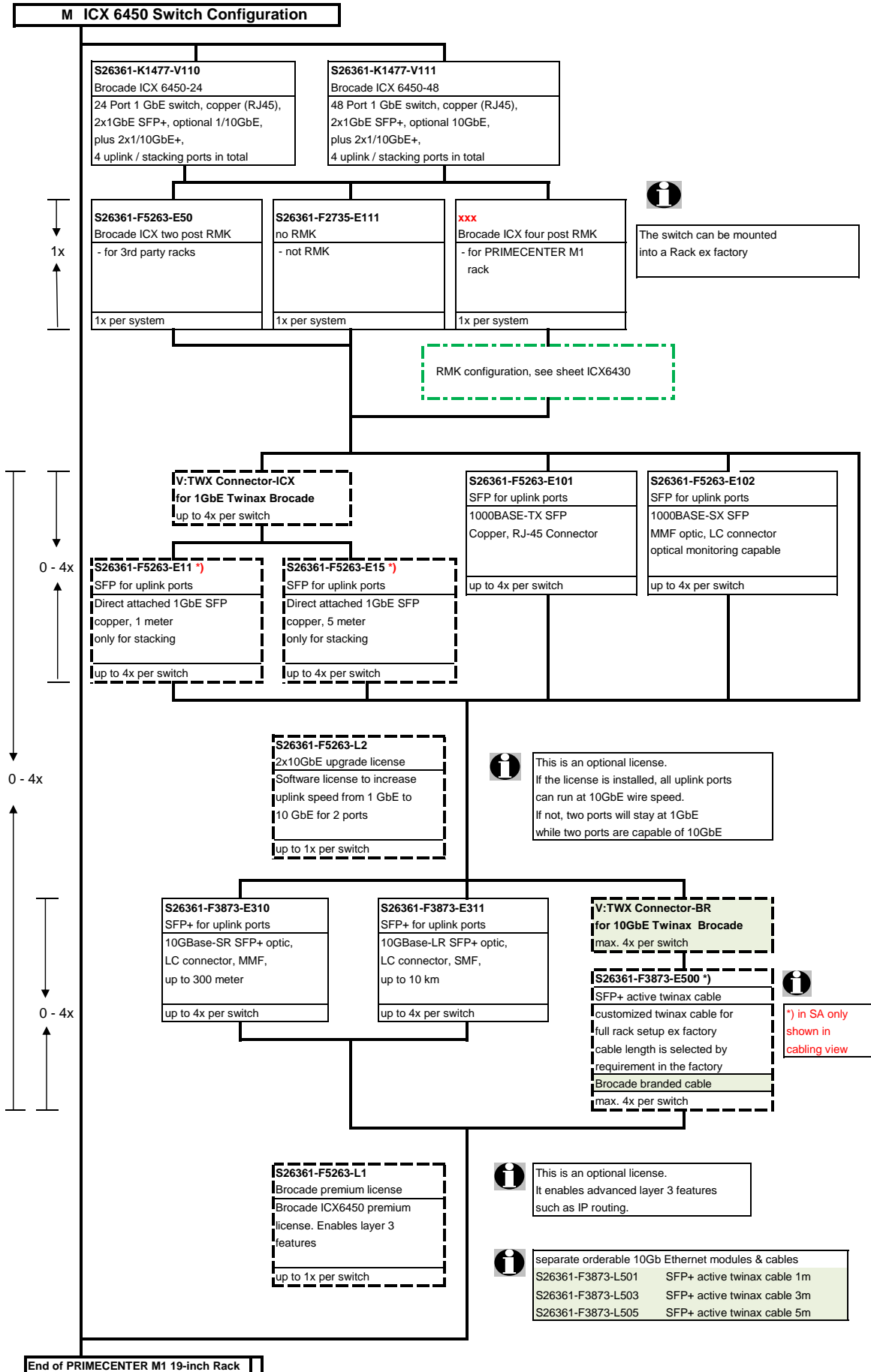
Other Informations about IB cabling / controller releases, see the respective configurator

Please use also the above mentioned selection of 1m and 3m IB Cu cable for the rack-spreading IB-cabling.



L ICX 6430 Switch Configuration





System configurator and order-information guide :

FibreCAT® TXF (Phased-out 12/2012)

Rack Backup Subsystem: 3U

The FibreCAT TXF is an innovative, easy-to-use, flexible and economical rack enclosure for backup devices. With its wide range of supported backup devices with SAS or USB interfaces, it is best suited to consolidate data backups for rack-based servers in PRIMECENTER and third-party racks.

Available backup drives:

4 x 5,25 "with 1.6" height (HH) per I/O Modul (SAS or USB) for accessible drives

- SAS: LTO5 HH, LTO4 HH, LTO3 HH, LTO2 HH
- USB DDS Gen5, DDS Gen6, RDX

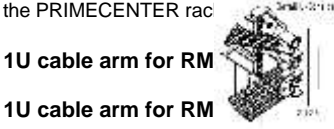
More information: FibreCAT TXF Configurator

<http://docs.ts.fujitsu.com/dl.aspx?id=61776716-c73f-4e57-9d3a-19821396a1f6>

Information about Smart USV in the internet see:

<https://partners.ts.fujitsu.com/com/products/servers/primergy/rackcomp/components/usv/Pages/default.aspx>

general rack accessories

S26361-F4530-L250	Brush Panel Kit (2pcs) PCR M1 for assembly in 42U PRIMECENTER M1 Racks at customer.
S26361-F4530-L260	Brush Panel Kit (1pc) Rear Door PCR M1 for assembly in 42U PRIMECENTER M1 Racks at customer.
S26361-F4530-L210	Tilting Protection Pull Out PCR M1 for assembly in PRIMECENTER M1 Racks at customer.
S26361-F4530-L225	Rack Connection Kit for joining of 2 PRIMECENTER M1 Racks at customer.
S26361-F4530-L6	Earthing Kit Racks PCR M1 for assembly in PRIMECENTER M1 Racks at customer.
S26361-F4530-L131	Dummy panel 1U plastics satin black for assembly in 19" rack
S26361-F4530-L132	Dummy panel 2U plastics satin black for assembly in 19" rack
S26361-F2735-L10	Support bracket for asymmetrical racks, max. load up to 15kg (servers up to 25kg) for compensation of shifted post in asymmetrical PRIMECENTER racks
S26361-F2735-L15	Support bracket for asymmetrical racks, max. load up to 35kg for compensation of shifted post in asymmetrical PRIMECENTER racks
S26361-F2735-L31	Support bracket for asymmetrical racks, max. load up to 50kg for compensation of shifted post in asymmetrical PRIMECENTER racks
S26361-F2735-L150	RMK-S Vario carrier w. L-shaped brackets easy rack mounting for 19inch rack systems in PC racks, max. load 50 kg
S26361-F2735-L7	Cable magmt. for 19" DC- PC- Rack cable management for adding a server or storage subsystem from a 3rd party rack into the PRIMECENTER rack
S26361-F2735-L81	1U cable arm for RMKs with cable management arm (CMA) adapter
S26361-F2735-L8	1U cable arm for RMKs with cable management arm (CMA) adapter cable arm for 1U PRIMECENTER server, dragged for PRIMECENTER- and 3rd-party Detail: mounted 1U cable arm at the left side of 19" profile open with Adobe Acrobat reader
	
S26361-F2201-L20	2U cable arm for RMKs without cable management arm (CMA) adapter in PRIMECENTER M1 or 3rd party racks.
S26361-F2735-L82	2U cable arm for RMKs with cable management arm (CMA) adapter
S26361-F2735-L320	RMK-PDU 2U horizontal
S26361-F2735-L330	RMK-PDU 3U horizontal
S26361-F1609-L35	Add-on base plate, 680mm deep 1U for assembly in 19" rack (1U), with support bracket, anthracite
S26361-F2735-L500	cage nut set, M5, t=2,5mm Content: 50 pieces orderable to boxes, server and racks
S26361-F2735-L510	SCREW SET IO-BOX Rack Mounting Content: M5X14-TORX screws, cage nuts, rosettes; each 16 pieces orderable to IO-boxes, switches and racks

Changereport

Date	Ordernumber	Changes
2013-03-06	S26361-K1477-V1xx	added Brocade ICX 6430 (new sheet) and ICX 6450 (new sheet)
2013-01-31	S26361-F3873-E401/L401	added 1GbE SFP for VDX6720
2012-12-13	S26361-F2735-L320/-L330	added RMK-PDU 2U/3U horizontal
2012-12-01	10GbE Twinax Cabling	added sheet "Twinax cabling with virtual SFP+ modules
2012-10-10		VDX Switch config changed, -E number for rSFP+ added, RMK no "MUST Order" option
2012-10-10	S26361-F2293-E411	EOL all content is marked to be delete
2012-08-23	S26361-F2735-L150	RMK with L-brackets for fix mounting of 19" systems
2012-08-01	S26361-K1452-V100	New Brocade 10GbE LAN-Switch VDX 6720
2012-03-30		PDU mounting rules
2012-01-10		Update Rack Accessories
2011-07-27		add section G with standard PDU
2011-07-19		Mounting of PDU's in 600mm PCR M1 Racks only horizontally with mounting kit
2011-07-01		First edition for PRIMECENTER M1 Racks