

>> Kontron Configuration Guide <<



CG2100 Carrier Grade Server

Document Revision 1.2

September 2014

Revision History

Revision	Date	Comments
1.0	April 29, 2010	Initial revision for production.
1.1	March 30, 2011	Added spares for x16 risers (NSNRISERFHLP16A, NSNRISERFH16P) and minor updates to Rack Mount Kits spares section.
1.2	September 17, 2014	Adding top cover replacement kit

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Table of Contents

I.		4
П.	ORDERING CG2100 SYSTEMS	5
III.	ORDERING CG2100 SPARES/ACCESSORIES1	1
	ENDIX A. RACK MOUNTING OPTIONS FOR 1U AND 2U COMMUNICATIONS K MOUNT SERVERS2	0

I. Introduction

Product Description:

The CG2100 Carrier Grade Server is the 5th generation of Kontron's 2U Carrier Grade Server products. The CG2100 supports the 32nm 6-core Intel[®] Xeon[®] 5600 series processors with 12M L3 cache, coupling high performance with power efficiency to provide improved performance-per-watt over previous-generation rack-mount servers.

The CG2100 is a NEBS-3 and ETSI compliant product which is suited for a host of applications in the telecom Central Office and industrial environment. The server is targeted to OSS (Operations System and Support), Billing, Provisioning, Softswitch, Media Server, Wireless and Unified Messaging, Call Center and many other applications. It can also support manufacturing, industrial, utility and even military applications where a rugged, highly reliable server is required for harsh environments such as dust, high altitude, fire hazard, earthquake propensity, and high ambient temperatures.

To add to the many recognized benefits of Kontron's Carrier Grade Server family, the CG2100 introduces several new important features such as support of PCI-E Gen2, Power Management Bus, DDR3 memory, hot-swap/redundant fans, SD flash storage, and increased memory capacity.

More detailed product information on the NSN2U is available on Kontron's website at:

<u>http://us.kontron.com/products/systems+and+platforms/communication+rackmount+ser</u> vers/carrier+grade+servers/cg2100+carrier+grade+server.html

Purpose of this Document:

Serving as an ordering reference guide, this document provides details on what parts are available from Kontron for the CG2100 Carrier Grade Server and its associated accessories and spares. Included are the necessary order codes and other important configuration information related to the ordering of the product.

Supported third-party components are not covered by this document, and may be found in the Tested Hardware and Operating System List (THOL) for this product.

II. Ordering CG2100 Systems

This section includes the following important information regarding how to order CG2100 systems. Please be familiar with each of these areas before placing an order.

- A. CG2100 System SKUs choice of AC or DC system SKU
- B. Required Configuration Choices to enable hard drive support, PCI risers, etc.
- C. CG2100 Base Model 0 Configuration list of what is included in the base model system
- D. Details on Ordering Processors list of which processors are supported
- E. Notes on Configuration Options important notes regarding certain accessories

A. CG2100 System SKUs

The CG2100 System SKUs are listed in the table below:

Product Code	Description	Min. Order Qty.
CG2100A-00	CG2100 Carrier Grade Server Base Model 0 with AC Power Supply	1
CG2100D-00	CG2100 Carrier Grade Server Base Model 0 with DC Power Supply	1

The CG2100 system SKUs are ordered using the Product Code as the order number. The CG2100 is offered as either an AC or DC version—as indicated by the 7th digit of the product code ("A" for AC or "D" for DC).

The above SKUs are "Base Model 0" SKUs—meaning they do not include processors, heat sinks, memory, hard drives, power cord, operating system, or plug-in adapters. Those components should be ordered separately as Accessories from Kontron or from third party vendors listed in the Tested Hardware and Operating System List (THOL).

The Mod 0 does NOT include a PCI riser or the hard drive controller modules necessary to enable hard drive support—see details below on how to enable those options.

See the **CG2100 Base Model 0 Configuration** table later in this section for a list of components included in each base model 0 SKU.

B. Required Configuration Choices

Required Choice of Hard Drive Controller Module:

Hard drive support is NOT enabled by default on the CG2100 Mod 0 base system. Therefore if hard drive support is needed on the system, then it is REQUIRED that you select the type of hard drive controller that you will need on the system—either for (1) basic SAS/SATA support or (2) HW RAID support.

Using the provided Product Codes, please order one of the two options below to enable the desired level of hard drive support for each CG2100 Mod 0 system. These items are also listed within the "Production Spares/Accessories List" in Section III.

Product Code	Description	Comments
NSNSASSATAQ	SAS/SATA Controller Module (non-HW RAID) Supported on CG2100 and NSN2U servers	Required for all systems that require only basic SAS/SATA hard drive support, and do <u>NOT</u> require HW RAID support.
NSNSASRAIDQ	SAS/SATA HW RAID Controller Module Supported on CG2100 and NSN2U servers	Required for all systems that require HW RAID support. Enables HW RAID 5, 6.

Required Choice of PCI Riser (to enable PCI support):

PCI risers are NOT included in the Mod 0 system. If PCI support is required, please order one of the below PCI risers using the provided product codes (also listed in *"Production Spares/Accessories List" in section III):*

Product Code	Description
ASR26XXFHLPR	
	2U PCI-E "Butterfly" Riser 3 FH/FL PCIe x8 slots, and 2 LP PCIe x8 slots
ASR26XXFHXR	2U PCI-E/PCI-X "Butterfly" Riser 2 PCI-X 133 slots, 1 FH/FL PCIe x8 slot, and 2 LP PCIe x4 slots

ASR26XXFHR	2U 3-slot PCI-E Passive Riser 3 FH/FL PCIe x8 slots
NSNRISERFHLP16A	5-slot x16 PCIe Active Riser (3 FH/FL and 2 LP slots) One x16 PCIe FH/FL slot (x16 electrical), Two x8 PCIe FH/FL (x8 electrical), Two x8 PCIe LP slots (x4 electrical)
NSNRISERFH16P	3-slot x16 PCIe Passive Riser (3 FH/FL slots) One x16 PCIe slot x16 electrical), Two x8 PCIe slots (x4 electrical)

AC Power Cords:

Power cords are not included with the Mod 0 system. For AC Power cords, order the following North American power cable using the provided product code. This power cable is RoHS-compliant.

Product Code	Comments
1-340000-0	
	This AC power cable can be ordered by North America (NA) customers. International customers should procure their specific power cords directly.

C. CG2100 Base Model 0 Configuration

All Production SKUs are base model 0 SKUs (no processor, heatsink, memory, hard drive, power cord, operating system, SAS/SATA controller module, HW RAID module, PCI risers, or plug-in adapters are provided). Those components must be ordered separately as Accessories from Kontron or from third party vendors listed in the Tested Hardware and Operating System List.

The table below lists which components are included in the base model 0 SKUs and which ones must be ordered separately or as optional accessories.

Component Description	AC Mod 0 DC Mod 0 Configuration Configuration		
Chassis (sheet metal, top cover, PCI cage, misc. parts)	1 included		
Baseboard T5520UR (Telco Urbanna), power distribution		uded	
board, system boards, fans, interconnect cables			
AC power supply (600 W)	1 included	-	
DC power supply (600 W)	-	1 included	
Filler Panel in 2 nd power supply bay	1 inc	luded	
Bezel (unpainted)	1 inc	luded	
RDIMM/UDIMM memory slots (memory not included)	12 inc	cluded	
Bays for hot-swap 2.5" SAS/SATA Hard Disk Drives	6 inc	luded	
Rear Panel GbE NIC (Cu) ports (via Server Board)	2 inc	luded	
Power Cable	Purchase	separately ¹	
SAS/SATA Controller Module (enables hard drive support)		Accessory ²	
HW RAID Module, optional battery backup	Optional Accessories ²		
SW RAID 0/1/10	Supported via SAS/SATA Module		
Remote Management Module 3 with GCM4	Optional Accessory ²		
5-slot PCI-E "Butterfly" Riser		Accessory ²	
5-slot PCI-E/PCI-X "Butterfly" Riser	Optional Accessory ²		
3-slot PCI-E Passive Riser	Optional Accessory ²		
5-slot x16 PCI-E Active Riser	Optional Accessory ²		
3-slot x16 PCI-E Passive Riser	Optional Accessory ²		
Optional I/O Module	Optional Accessory ²		
Rack Mount Kits	Optional Accessory ³		
SD Flash Module	Optional Accessory ³		
Rail Enabling Kit (enables AXXBASRAIL13 and	Optional Accessory ³		
AXXHERAIL2)		. 4	
Processor (refer to "Details on Ordering Processors")	Purchase separately ⁴		
Heatsink	Accessory or purchase separately		
RDIMM/UDIMM Memory	Purchase separately ⁴		
Hard Disk Drives (SAS or SATA)	Purchase separately ⁴		
SMART Z-U130 eUSB Drive	Purchase separately ⁴		

¹Refer to AC power cord accessory in this section

²Refer to "Production Spares/Accessories List" in section III

³Refer to "Rack Mounting Options" in the Appendix

⁴Should be purchased separately (parts not listed in this document)

D. Details on Ordering Processors

The CG2100 is designed to support the following processor SKUs from the Intel[®] Xeon[®] processor 5600 series.

Processor Number	Cores	Speed	TDP	Memory Speed Support	Kontron P/N	Intel P/N
E5645	6 cores	2.4 GHz	80W	DDR3-1333	K00203-001	AT80614003597AC
E5620	4 cores	2.4 GHz	80W	DDR3-1066	K00204-001	AT80614005073AB

Intel[®] Xeon[®] Processors Supported by the CG2100:

Notes:

- Both of the above processors are on Intel's long life roadmap and are recommended with the CG2100 for highest performance and long availability and support.
- These processors are orderable from Kontron or Intel using the indicated part numbers.
- Use of the above processors requires the purchase of a passive heatsink (product code BXST100P). This heatsink is also listed in the Spares/Accessories list in section III.

E. Notes on the CG2100 Configuration & Options

Please review the following important notes regarding certain accessories and configuration options for the CG2100.

HW RAID

- HW RAID 5 and 6 support can be enabled via the following optional accessories (*refer to "Production Spares/Accessories List" in section III*).
 - NSNSASRAIDQ (SAS/SATA HW RAID Controller Module) includes the board, RAID activation key, and memory
 - > **AXXRSBBU4** (Intel® RAID Smart Battery Backup module)
- If HW RAID is not needed, then the **NSNSASSATAQ** SAS/SATA Controller Module should be ordered instead of the above accessory options.

Flash Drives

- The **Embedded USB (EUSB) Flash Drive** from Smart Modular Technologies is supported in the system:
 - > Available from SMART Modular Technologies or Kontron
 - Multiple drive capacities supported. Refer to the 'Tested Hardware and Operating System List' (THOL) for details on supported SKUs.
 - Mounts directly on the system baseboard and/or front panel board, without the need for special mounting kit.
 - Product information is available at: <u>http://www.smartmodular.com/product/product.cfm?productID=65</u>
 - > Replaces the former Intel® Z-U130 Value Solid State Drive

I/O Option Modules

- The following optional modules attach to the system board via a proprietary connector, and provide additional I/O through the rear bulkhead.
 - > The **AXX10GBIOMOD** option module provides two 10GbE NICs.
 - > The **AXX4GBIOMOD2** option module provides four GbE NICs.
 - > The **AXXSASIOMOD** option module provides 4 ports for external SAS
 - Note on AXXSASIOMOD: To avoid connection failures or module interface breakage, you must well support the external cabling to the module. Do NOT let the external cabling hang in the air or leave it unsupported.
- For ordering details, refer to "Production Spares/Accessories List" in section III.

Rack Mounting Options

- Rack mounting kits for 2-post or 4-post, 19-inch or 23-inch racks are offered for this product. These include TMLCMOUNT21, TMLPMOUNT41, TMLPMOUNT51, TMLPMOUNT52, and TMLPSLIDE01. The Rail Enabling Kit (TMLREK01) is not required for these rack mount kits.
 - Please refer to Appendix A to determine the correct options to suit your needs. For ordering details, refer to "Production Spares/Accessories List" in section III.
- If AXXBASRAIL13 or AXXHERAIL2 (from Intel) will be used, then a Rail Enabling Kit (TMLREK01) must be purchased from Kontron to enable support of these Intel rail kits.
 - For ordering details, refer to "Production Spares/Accessories List" in section III.

III. Ordering CG2100 Spares/Accessories

In the table below are a list of the Spares and Accessories that may be ordered for the CG2100 system. Please read the following notes regarding this parts list.

- **Spares**: Any of these items may be ordered as 'Spares' for part replacement purposes.
- Accessories: Some of these items are not included in the CG2100 Mod0 base model, but may be ordered as 'Accessories' to upgrade the base model with additional features.
- **3rd Party Accessories:** For a listing of compatible 3rd party accessories, please refer to the Tested Hardware and Operating System List (THOL) document.

Product Code	Description	Products Supported	Included in Base Model (Y/N)	Min. Order Qty
NSNACPSUQ	AC Power Supply	CG2100, NSN2U	Y (one in AC SKU)	1
NSNDCPSUQ	DC Power Supply Includes input power connector	CG2100, NSN2U	Y (one in DC SKU)	1
1-340000-0	AC Power Cord Should be ordered by North America customers. International customers should procure their specific power cords directly.	All CRMS servers	Ν	1

Power Supplies/Cord:

Storage/RAID Options:

Product Code	Description	Products Supported	Included in Base Model (Y/N)	Min. Order Qty
NSNSASSATAQ	SAS/SATA Controller Module (non-HW RAID)	CG2100, NSN2U	Ν	1
NSNSASRAIDQ	SAS/SATA HW RAID Module Contents: Board, RAID activation key, memory. <i>Battery not included.</i>	CG2100, NSN2U	Ν	1
<image/>	Intel® RAID Smart Battery Backup module For use with Intel® Integrated Server RAID (requires NSNSASRAIDQ).	CG2100, NSN2U	Ν	5 (order in multiples of 5)
NSNSASHDDCARQ	SAS HDD Carrier Contents: Carrier, black plastic filler, screws (4)	CG2100, NSN2U	Y (six included)	12 (order in multiples of 12)
CG2100-SDMODULE	CG2100 SD Flash Module Contents: 2-port module, cable, mounting bracket, 2 screws	CG2100	Ν	1

Heatsink:

Product Code	Description	Products Supported	Included in Base Model (Y/N)	Min. Order Qty
BXSTS100P	Heatsink (passive) Contents: 25.5mm Tall Passive Heatsink (copper base with aluminum fins)	CG2100, NSN2U	Ν	4

Bezels:

Product Code	Description	Products Supported	Included in Base Model (Y/N)	Min. Order Qty
CG2100-BEZEL01	CG2100 Bezel (Unpainted)	CG2100	Y (one bezel)	12 (order in multiples of 12)

PCI Risers:

Product Code	Description	Included in Base Model (Y/N)	Min. Order Qty
ASR26XXFHLPR	 5 slot PCI-e active Riser Provides: 1 full-size x16 physical x8 electrical slots 2 full-size x8 physical x8 electrical slot 2 low-profile x8 physical x8 electrical slots. 	Ν	5
ASR26XXFHXR	 5 slot PCI-e / PCI-X active Riser Provides: 2 full-size PCI-X 133 slots 1 full-size x8 physical x8 electrical slot 2 low-profile x8 physical x8 electrical slots 	Ν	5
ASR26XXFHR	 3-slot PCI-e passive Riser Provides: 1 full-size x16 physical x8 electrical slot 2 full-size x8 physical x8 electrical slots 	Ν	5

NSNRISERFHLP16A	 5-slot x16 PCle Active Riser (3 FH/FL and 2 LP slots) Provides: One x16 PCle FH/FL slot (x16 electrical) Two x8 PCle FH/FL (x8 electrical) Two x8 PCle LP slots (x4 electrical) 	Ν	
NSNRISERFH16P	 3-slot x16 PCIe Passive Riser (3 FH/FL slots) Provides: One x16 PCIe slot x16 electrical) Two x8 PCIe slots (x4 electrical) 	Ν	

I/O Modules:

Product Code	Description	Included in Base Model (Y/N)	Min. Order Qty
AXX10GBIOMOD	Dual port 10GbE I/O Module	Ν	1
AXX4GBIOMOD2	Quad port GbE I/O Module	Ν	1
AXXSASIOMOD	Four-port external SAS I/O Expansion Module	Ν	1

Remote Management Module:

Product Code	Description	Products Supported	Included in Base Model (Y/N)	Min. Order Qty	
AXXRMM3	Intel® Remote Management Module 3 kit Contents: module, mounting brackets, long and short cables	CG2100, NSN2U	Ν	1	

Replacement Spares:

Product Code	Description	Products Supported	Included in Base Model (Y/N)	Min. Order Qty
NSNBASEBDQ	T5520UR Server Baseboard	CG2100, NSN2U	Y	1
NSNPWRDISBDQ	Power Distribution Board	CG2100, NSN2U	Y	1
NSNFPIOBDQ	Front Panel IO board	CG2100, NSN2U	Y	1
NSNLEDSWITCHBDQ	LED / Switch Board	CG2100, NSN2U	Y	1
CG2100-SASBKPLN	CG2100 SAS Backplane	CG2100	Y	1
CG2100-BRIDGEBD	CG2100 Bridge board Flex Assembly Contents: Bridge board / flex cable assembly (SAS interface, front panel signals)	CG2100	Y	1

CG2100-INTCBLKIT	CG2100 System Interconnect Cable Kit Contents: Power distribution cable, LED/Switch board signal cable, 60mm fan cable, 80mm fan cable. SD flash cable, alarms cable, TAM cable, serial port cable	CG2100 Y		1
NSNFANSETQ	Fan Assembly (6 fans) Contents: 2x 60mm fans, plus 4x 80m assembly fans. Includes plastic parts (finger guard).	CG2100, NSN2U	Y	1
	CG2100 TAM Module	CG2100	Υ	1
CG2100x Cover Spare Kit (10x)	CG2100 top cover spare parts (10x)	C2100	Ν	1

Rack Mount Kits (refer to Appendix A for additional details)

Product Code	Description	Included in Base Model (Y/N)	Min. Order Qty
TMLCMOUNT21	Rack Mount Kit TMLCMOUNT21 Used for mounting servers on a 19-inch wide, 2- post rack	Ν	10

TMLPMOUNT41	Rack Mount Kit TMLPMOUNT41 Used for mounting servers on 19-inch wide, 2- post or 4-post racks	Ν	10
TMLPMOUNT51	Rack Mount Kit TMLPMOUNT51 Used for mounting servers on 19-inch wide, 2- post or 4-post racks	Ν	1
TMLPMOUNT52	Rack Mount Kit TMLPMOUNT52 Used for mounting servers on 23-inch wide, 2- post or 4-post racks	Ν	1
TMLPSLIDE01	Universal Front Mounting Brackets Accessory kit designed for use in conjunction with slide rails. Each kit contains two Universal Front Mounting Brackets that secure the server to the front of the rack.	Ν	10
AXXBASRAIL13	Basic Slide Rail Kit NOTE: Does not support Cable Management Arm. NOTE: Requires TMLREK01 to attach to CG2100 chassis (orderable from Intel only –MM# 899080)	Ν	1
AXXHERAIL2	Full extending Slide Rail Kit NOTE: Requires TMLREK01 to attach to CG2100 chassis (orderable from Intel only – MM# 901082)	Ν	1
AXXRACKARM2	Cable Management Arm NOTE: To be used with AXXHERAIL2 only (orderable from Intel only – MM# 901084)	Ν	1

TMLREK01	Rail Enabling Kit Enables AXXBASRAIL13 and AXXHERAIL2 on CG2100	 Each kit includes: rackmount ears (2) rackmount shoulder screws (4) screws (2) 	Ζ	10 (order in multiples of 10)
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Appendix A. Rack Mounting Options for 1U and 2U Communications Rack Mount Servers

Rack mounting kits for 2-post or 4-post, 19-inch or 23-inch racks are offered for this product. For ordering details, refer to "Production Spares/Accessories List" in section III. Please refer to the tables below for the correct options to suit your needs.

Although these mounts have been designed for industry standard racks, please consult with your Field Application or Sales Engineer before selecting racks for these servers. Compatible rack mounting kits can also be obtained from 3rd party suppliers.

All rack mount kits listed are suitable for 1U and 2U Communications Rack Mount Servers. Installation instructions are included in each kit.

2-post Rack Mounting Kit Options							
Appliaghla kita	Rack width		Post depth		Rack fastener hole spacing)
Applicable kits:	19 inch	23 inch	3 inch	5 inch	EIA-Wide	EIA-Universal	ETSI
TMLCMOUNT21	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	
TMLPMOUNT 41	\checkmark		\checkmark	\checkmark			
TMLPMOUNT 51	\checkmark		\checkmark	\checkmark	\checkmark		
TMLPMOUNT 52		\checkmark	\checkmark	\checkmark			

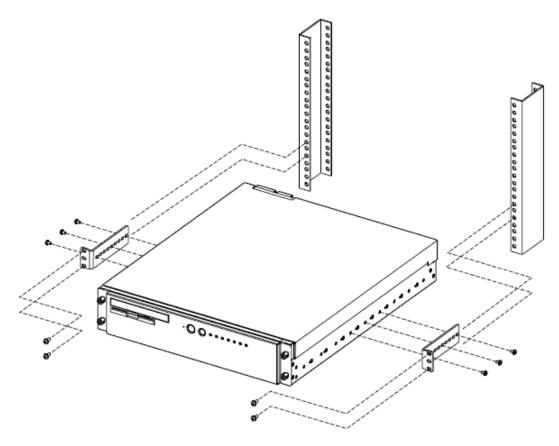
4-post Rack Mounting Kit Options							
Applicable Liter	Rack	Rack width Front-post to rear-post distance			Rack fastener hole spacing		
Applicable kits:	19 inch	23 inch	Min (inches)	Max (inches)	EIA- Wide	EIA- Universal	ETSI
TMLPMOUNT41	\checkmark		20	24		\checkmark	
TMLPMOUNT 51	\checkmark		20	24	\checkmark	\checkmark	
TMLPMOUNT 52		\checkmark	20	24	\checkmark	\checkmark	\checkmark
TMLP SLIDE01 [†]	\checkmark		22.5	28 or 34^{††}		\checkmark	

[†]The **TMLPSLIDE01** kit contains server securing brackets.

^{**++**}**34-inch** span requires the optional Accuride "Long Bracket" kit.

TMLCMOUNT21

The TMLCMOUNT21 kit mounts Communication Rack Mount Servers to a 2-post, central office type, 19inch wide rack. This kit consists of L-shaped brackets that fasten to the sides of the server and to the rack.



TMLCMOUNT21

TMLPMOUNT41, TMLPMOUNT51 and TMLPMOUNT52

TMLPMOUNT41/51/52 series mounts Communication Rack Mount Servers to 2-post or 4-post racks.

TMLPMOUNT**41** and TMLPMOUNT**51** are used for mounting servers on 19-inch wide racks. These racks are considered standard EIA (universal hole spacing) racks.

TMLPMOUNT**52** is used for mounting servers on 23-inch wide racks. These racks could be standard EIA (universal or wide hole spacing) or ETSI (European) racks.

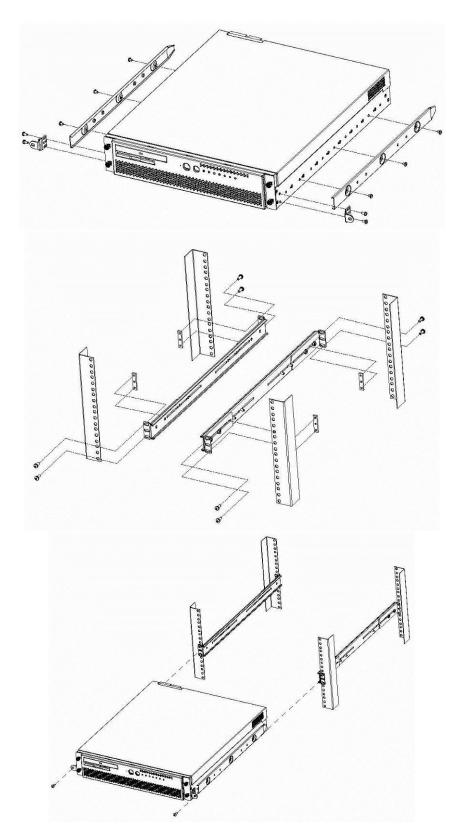
TMLPMOUNT**41/51/52** series are designed with a slide-in rail-type system. Although the mounts are designed as rails, they are not sliding rails. This means the servers can be slid into the racks for installation purpose, but the rails are not designed to support a mounted server during service.

TMLPMOUNT4x/5x Feature Comparison						
	Slide pull-out locking feature	Slide interface material	4-post rack hole spacing	2U-tall nut bar	2-post chassis securing screw location	"HP Mulan rack interference"
TMLPMOUNT41	No ¹	Plastic strips ²	EIA-Universal	Not included	Side access ⁶	Interference
TMLPMOUNT 51	Yes	Xylan coating ³	EIA-Wide or EIA- Universal ⁴	Included ⁵	Front access	No Interference
TMLPMOUNT 52	Yes	Xylan coating ³	EIA-Wide, EIA- Universal or ETSI	Included ⁵	Front access	N/A

Notes:

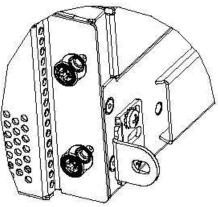
1. Extra care must be exercised with TMLPMOUNT41 to securely hold the server with one's hands when sliding it out of the rack; otherwise, the server could fall to the ground as it is being removed.

- 2. Plastic strips on TMLPMOUNT41 have peeled off in some customer installations. The result of this is that the parts are usable, but the server could have somewhat of a "scrape-in feel" rather than "slide in". Also, the rails will fit sloppier, so the side-located chassis securing screws could be difficult to align in 2-post installations. Replacement material is available from the plastic strip manufacturer.
- 3. Xylan is a tough, low-friction coating similar to Teflon.
- 4. EIA-Wide spacing doesn't have the interstitial hole that is present in EIA-Universal. TMLPMOUNT51 contains an adapter bracket to overcome this EIA-Wide issue.
- 5. This component (2U Nut Bar) enables installation of a rail kit into a 1U rack slot when there is already equipment installed both above and below that open slot.
- 6. The sides of the server must be accessible when using TMLPMOUNT41 in 2-post racks.

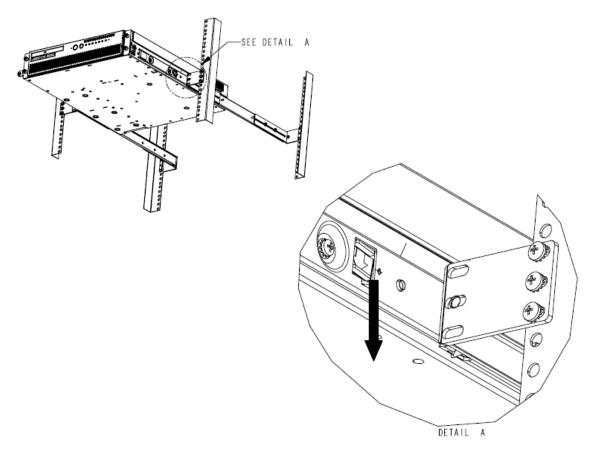


The diagrams above summarize the components and "slide-in rail-type" system of the TMLPMOUNT41. It can be adapted for a 2-post or 4-post installation.

The main difference between the TMLPMOUNT41 and TMLPMOUNT51/52 series is that the TMLPMOUNT41 series uses a screw to lock the server in place using the Universal Mounting Bracket, whilst the TMLPMOUNT51/52 series has an additional Slide Pull-Out Locking feature.



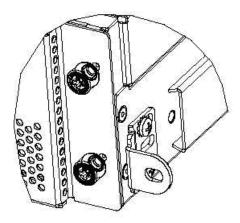
Universal Front Mounting Bracket on the TMLPMOUNT41



Slide Pull-Out Locking feature on the TMLPMOUNT51/52

TMLPSLIDE01

The TMLPSLIDE01 is an accessory kit designed for use in conjunction with slide rails to produce a rack mounted serviceable server. The TMLPSLIDE01 kit contains two Universal Front Mounting Brackets that secure the server to the front of the rack. The sliding rails and optional mounting brackets required to mount the server must be purchased through the channel. For example, the Accuride 22-inch Model 305A-LR slide rails are designed to mount a server for "in-rack service." This example would also use an Accuride mounting bracket kit and the TMLPSLIDE01.



Universal Front Mounting Bracket with securing tab

Note: Using slide rails could result in non-compliance with Seismic Zone 4 requirements of NEBS-3 certification.