Suggested Racking Rule

Reserved for accessibility

Reserved **U37-U41** for **Rack-Rack** Switches *if ordered*

- - Any component placed above 32U should be accessed by the Compliance team for Tipping (if use MFG factory rack integration) .. - - MTM required sliding rail should not be place above U38 (Service)

Reserved **U24-U26** for **In-rack** Network Switches

Start at U2and go UP

Common Rule:

--Place Pod / same MTM / Similar Funtion together

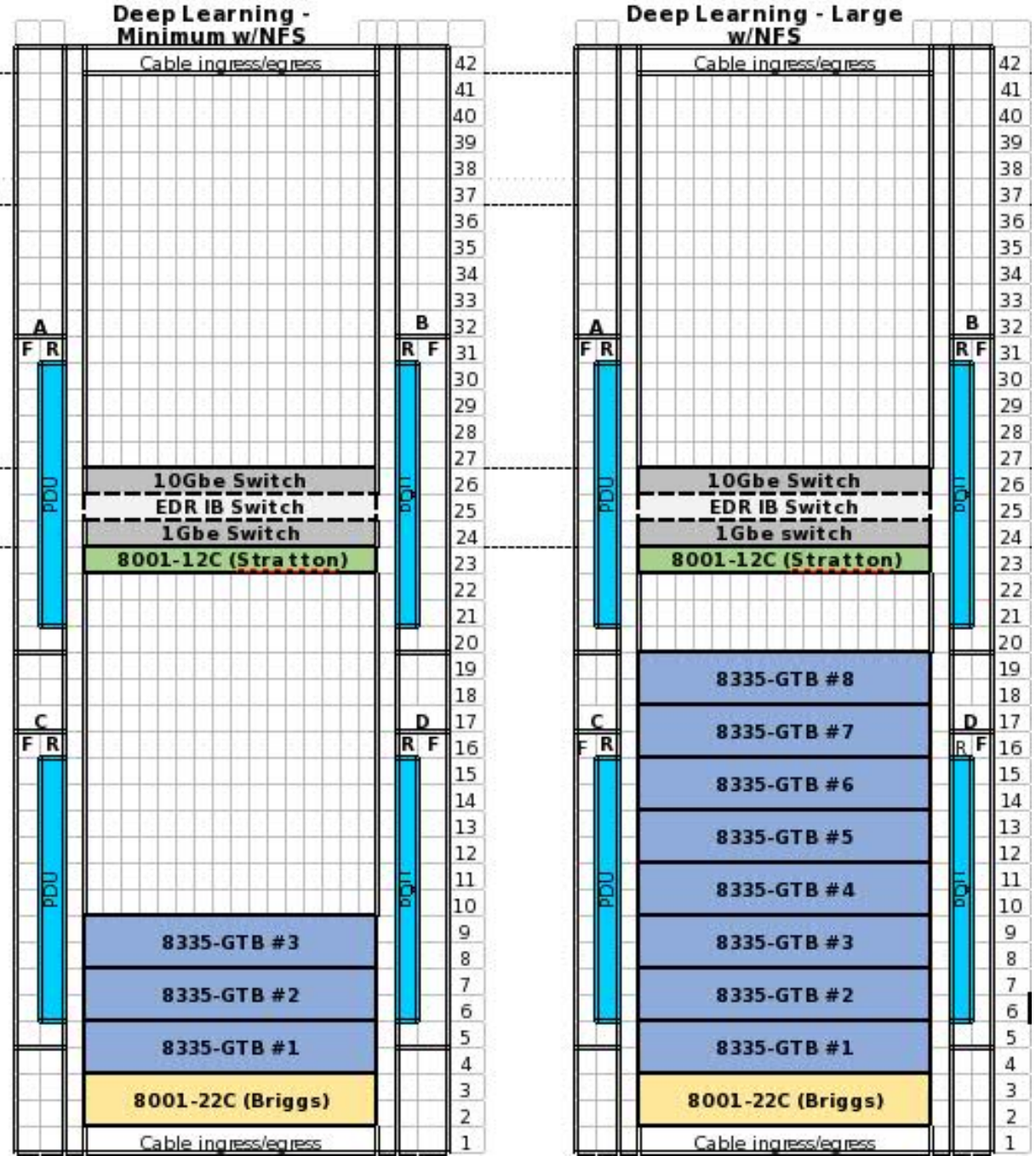
--Place Heavier MTM first starting U2

--Follow native MTM unique racking requirement

Your own Racking Rules:

-- Recommend (0 -18) 2U Servers per Rack
-- CEPH node and Swift node are placed in the lower part of the rack
-- Openstack controller and compute follow
-- 2 racks per Set of network switch

Reserved for accessibility



	MT	Model	Description	Default	Min	Max	Comments
S822LC Server Config - Compute Node							
	8335	GTB	S822LC (8335)	2	2	4	
		Solution	Solution Specify Code (for grouping only)	1	1	1	n/a
		Pod Type	Compute Server Type 2 Specify Code	1	1	1	n/a
		Processo	EP04 8W P8' 3.259/3.857GHZ PROC 190/247W (DELLOVO)	2	2	2	
		Memory	EM57 64GB (4X16GB) IS RDIMMS (1.2V) 1600MHZ 4GBIT DDR4 DRAMS	4	4	16	
		Disks	ELD0 1TB 7200 RPM SATA HDD IN MODIFIED GEN3 (SFF-4) CARRIER (AV	2	1	2	OS Boot Disk
		NVmE PCI	EC56 NON-VOLATILE MEMORY PCIe3 x4 3.2TB SSD LOW PROFILE NVMe	0	0	1	**(Optional)** NVMe disk for data cache
		GPU	EC4C COMPUTE INTENSIVE ACCELERATOR, GPU, Slot C1,C4	2	2	2	
		GPU	EC4D COMPUTE INTENSIVE ACCELERATOR, GPU, Slot C7,C9	2	2	2	
S822C Server (Base config) -- Required Inter-connect							
		Network Adapter	EN0V QUAD E'NET (2X1 + 2X10 10Gb) PCIe Gen 2 X8/SHORT LP-Twinax	1	1	3	**(Required) For High Speed Network**
			EC3E 2-PORT 100Gb EDR IB PCIe x16 LP CAPABLE ADAPTER - Twinax	0	0		**(Optional)** EDR IB
		Power	6665 PWR CBL DRWR TO IBM PDU, 2.8m (9.2ft), 250V/10A, IEC320/C13,	2	2	2	Select Proper Line cord if not connected to IBM PDU
		Cables	CAT5E SWITCH CABLE, BLUE (2M)	1	1	*	**(Required) For OS 1G Network (Rec. 2M length min)**
			CAT5E SWITCH CABLE, GREEN (2M)	1	1	*	**(Required) For IPMI 1G Network (Rec. 2M length min)**
			EKC1 3M- Active Twinax cable	1	1	*	**(Required) For High Speed Network (Rec. 2M length min)**
			No rack integration	1	1	1	
			Country specific FCs (keyboards, language groups) are selectable	1	1	1	User select
			Shipping and Handling	1	1	1	User select

	MT	Model	Description	Mfg Config #1	Min	Max	Comments
S812C Server Config = Master Node							
	8001	12C	S821LC (8001)	3	3	**	
		[illegible]	Solution Specify Code (for grouping only)	1	1	1	n/a
		Pod Type	Login Server Specify Code	1	1	1	n/a
		Processor	8-core POWER8 2.328 GHz	2	1	2	
		Memory	EKM0 (PS) 4GB DDR4 MEMORY DIMM	8	4	16	
		Bezel	EKB4 2S base system with LFF high-function drive midplane (NVMe drives supp	1	1	1	
		Storage Adapter	Integrated Sata controller	1	1	1	Build-in HDDs : Integrate SATA controller + Optional SAS /RAID Controller
				0	0	1	Optional - Exteral SAS adapter for Expansion SAS drawer
		Disks	EKD2 4TB 3.5" SAS HDD	1	0	2	OS Boot Disk
			EKDD 8TB 3.5" SATA HDD	4	4	4	If SAS drive is selected, please choose Bezel Assembly to match drive size (.5"
		NVmE PCI		0	4	2	
		GPU		0	0	1	
S812C Server (Base config) -- Required Inter-connect							
Required for Mfg Genesis		Network Adapter	EKA2 PCIe3 2-port 10 GbE SFP+ Adapter, based on Intel XL710	1	1	3	**(Required) For High Speed Network**
				0	0	3	Section IO device (optional)
		Power	EKLJ (PS #6665) PWR CBL DRWR TO IBM PDU, 2.8m (9.2ft), 250V/10A, IEC320/C13, IEC320/C20	2	2	2	Select Proper Line cord if not connected to IBM PDU
		Cables	CAT5E SWITCH CABLE, BLUE (2M)	1	1	*	**(Required) For OS 1G Network (Recommended 2M length min)**
			CAT5E SWITCH CABLE, GREEN (2M)	1	1	*	**(Required) For IPMI 1G Network (Recommended 2M length min)**
			EKC1 3M- Active Twinax cable	1	1	*	**(Required) For High Speed Network (Recommended 2M length min)**
		Misc	No rack integration	1	1	1	
			Country specific FCs (keyboards, language groups) are selectable	1	1	1	User select
			Shipping and Handling	1	1	1	User select

	MT	Model	Description	Mfg Config #1	Min	Max	Comments
S822C Server Config : Storage Node							
	8001	22C	ServerConfig- S822C	6	0	**	This section Defined the **Common config of the Server node** (in group servers) -- **Next Section** : Defined any unique config that you may need (Optional)
		Solution ID	Solution Specify Code (for grouping only)	1	1	1	Optional FC -- used to specify Solution specific config .. Need econfig support
		Pod Type	Compute Server Type 2 Specify Code	1	1	1	Optional FC -- used to specify node type/ config .. Need econfig support
		Processor	EKP4 8-core POWER8 3.32 GHz	2	1	2	
		Memory	EKM2 (PS) 16GB DDR4 MEMORY DIMM	8	4	16	
		Bezel	EKB9 2S base system with LFF high function drive midplane (NVMe drives supp	1	1	1	Need to Choose drive assembly to match your Disks (LFF/SFF) and Controler type (SAS)
		Storage Adapter	Integrated Sata controller	1	1	1	Build-in HDDs : Integrate SATA controller + Optional SAS /RAID Controller
			EKEB PCIe3 SAS RAID Controller w/cable for 2U server, based on LSI 3008L	0	0	1	Optional - Exteral SAS adapter for Expansion SAS drawer
		Disks	EKS1 240 GB, SFF SATA SSD; 1.2 Disk Writes Per Day (DWPD) kit	1	0	2	OS Boot Disk
			EKS1 240 GB, SFF SATA SSD; 1.2 Disk Writes Per Day (DWPD) kit	1	0	2	
			EKDD 8 TB 3.5" SATA HDD	6	0	9	If SAS drive is selected, please choose Bezel Assembly to match drive size (.5"
		NVmE PCI		0	0	2	
		GPU		0	0	1	
S822C Server (Base config) -- Required Inter-connect							
Required for Mfg Genesis		Network Adapter	EKA2 (PS) INTEL 82599ES 2-PORT SFP+ 10G GEN2 x8 STANDARD	1	1	3	**(Required) For High Speed Network**
				0	0	3	Section IO device (optional)
		Power	EKLJ (PS #6665) PWR CBL DRWR TO IBM PDU, 2.8m (9.2ft), 250V/10A, IEC320/C13, IEC320/C20	2	2	2	Select Proper Line cord if not connected to IBM PDU
		Cables	CAT5E SWITCH CABLE, BLUE (2M)	1	1	*	**(Required) For OS 1G Network (Recommended 2M length min)**
			CAT5E SWITCH CABLE, GREEN (2M)	1	1	*	**(Required) For IPMI 1G Network (Recommended 2M length min)**
			EKC1 3M- Active Twinax cable	1	1	*	**(Required) For High Speed Network (Recommended 2M length min)**
		Misc	Country specific FCs (keyboards, language groups) are selectable	1	1	1	User select
			Shipping and Handling	1	1	1	User select