## Servers

				Solution Rule							
MT	Model	Description	Default	Min	Max	Comments					
	Customized Personality: 8001-12C Server Config 1 >> SYSTEM MANAGEMENT NODE Customization (Min 1; Max 1)										
8001	12C	S821LC (8001)	1	1	**						
	Processor	EKP1 8-core POWER8 2.328 GHz	1	1	2	1x8 core					
	Memory	EKM0 (PS) 4GB DDR4 MEMORY DIMM	8	4	16	32GB					
	Bezel	EKB0 1S base system with LFF high-function drive midplane (NVMe drives supported.)	1	1	1						
	Storage	Integrated SATA controller	1	1	1	Build-in HDDs: Integrate SATA controller + Optional SAS /RAID Controller					
	Adapter		0	0	1	Optional - Exteral SAS adapter for Expansion SAS drawer					
	Disks	EKDB 4TB 3.5" SATA HDD	2	0	2						
	Disks		0	0	4						
	NVmE PCI		0	4	2						
	GPU		0	0	1						
	Customized Personality: 8001-12C Server Config 2 >> MASTER NODE Configuration (Min 3; Max Any)										
8001	12C	S821LC (8001)	3	3	**						
	Processor	EKP2 10-core POWER8 2.095 GHz	2	2	2	2x 10Cores					
	Memory	EKM2 (PS) 16GB DDR4 MEMORY DIMM	16	4	16	256GB					
	Bezel	EKB4 2S base system with LFF high-function drive midplane (NVMe drives supported.)	1	1	1						
	Storage Adapter	Integrated Sata controller	1	1	1	Build-in HDDs: Integrate SATA controller + Optional SAS /RAID Controller					
		EKAH PCIe3 SAS RAID Controller w/cable for 1U server, based on LSI MegaRAID 9361-8i 2GB	0	0	1	Optional - Exteral SAS adapter for Expansion SAS drawer					
	Dieke	128 GB SATA Disk on module SuperDOM	0	0	2	OS Boot Disk					
	Disks	EKD2 4TB 3.5" SAS HDD	4	4	4						
	NVmE PCI		0	4	2						
	GPU		0	0	1						
	Customized Personality: 8001-12C Server Config 3 >> EDGE NODE Configuration (Min 1; Max Any)										
8001	12C	S821LC (8001)	1	1	**						
	Processor	EKP2 10-core POWER8 2.095 GHz	2	2	2	2x 10Cores					
	Memory	EKM2 (PS) 16GB DDR4 MEMORY DIMM	16	4	16	256GB					
	Bezel	EKB4 2S base system with LFF high-function drive midplane (NVMe drives supported.)	1	1	1						
	Storage Adapter	Integrated Sata controller	1	1	1	Build-in HDDs: Integrate SATA controller + Optional SAS /RAID Controller					
		EKAH PCIe3 SAS RAID Controller w/cable for 1U server, based on LSI MegaRAID 9361-8i 2GB	0	0	1	Optional - Exteral SAS adapter for Expansion SAS drawer					
	Disks	128 GB SATA Disk on module SuperDOM	0	0	2	OS Boot Disk					
	DISKS	EKD2 4TB 3.5" SAS HDD	4	4	4						
	NVmE PCI		0	4	2						
	GPU		0	0	1						

	Network	EKA2 PCle3 2-port 10 GbE SFP+ Adapter, based on Intel XL710	1	1	1	additional bandwidth for ingest processing (total of 2 EKA2 adapters for edge nodes)		
	Adapter		0	0	1	Section IO device (optional)		
812C	Server (Ba	se config) Required Inter-connect						
	OS & Firm-	2147 Primary OS - Linux	1	1	1			
for Mfg Genesis	ware	EC16 - OpenPOWER Abstraction layer (OPAL)	1	1	1			
	Network	EKA2 PCle3 2-port 10 GbE SFP+ Adapter, based on Intel XL710	1	1	3	(Required) For High Speed Network		
	Adapter		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		
		CAT5E SWITCH CABLE, BLUE (2M)	1	1	*	(Required) For OS 1G Network (Recommended 2M length min)		
	Cables	CAT5E SWITCH CABLE, GREEN (2M)	1	1	*	(Required) For IPMI 1G Network (Recommended 2M length min)		
		EKC1 3M- Active Twinax cable	0	1	*	(Required) For High Speed Network (Recommended 2M length min)		
Required		No rack integration	1	1	1			
Re	Misc	Country specific FCs (keyboards, language groups) are selectable	1	1	1	User select		
		Shipping and Handling	1	1	1	User select		
		Customized Personality: 8001-22C C	onfig 1	>> WO	RKER N	IODE - Balanced Config		
8001	22C	ServerConfig- S822C	8	3	**	This section Defined the <u>Common config of the Server node</u> (in group servers) <b>Next Secti</b> : Defined any unique config that you may need (Optional)		
	Processor	EKPA 11-core POWER8 2.89 GHz	2	2	2	2x 11 core offering		
	Memory	EKM2 (PS) 16GB DDR4 MEMORY DIMM	16	16	16	256GB DIMM		
	Bezel	EKB5 (PS) 2S BRIGGS LFF DIRECT ATTACH FAB ASSEMBLY	1	1	1	Need to Choose drive assemply to match your Disks (LFF/SFF) and Controler type (SAS)		
	04	Integrated Sata controller	1	1	1	Build-in HDDs: Integrate SATA controller + Optional SAS /RAID Controller		
	Storage Adapter	EKEA PCIe3 SAS RAID Controller w/cable for 2U server, based on LSI MegaRAID 9361-8i	1	1	1	Exteral SAS adapter for Expansion SAS drawer		
	Dieles	EKSL 64GB SATA Disk on module, SuperDOM	0	0	2			
	Disks	EKD2 4TB 3.5" SAS HDD	12	12	12	12x 4TB SAS Drives		
1	NVmE PCI		0	4	2			
	GPU		0	0	1			
822C	Server (Ba	se config) Required Inter-connect						
	OS & Firm-	2147 Primary OS - Linux	1	1	1			
	ware	EC16 - OpenPOWER Abstraction layer (OPAL)	1	1	1			
	Network Adapter	EKA2 (PS) INTEL 82599ES 2-PORT SFP+ 10G GEN2 x8 STANDARD	1	1	3	(Required) For High Speed Network		
lired for Mfg Genesis			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		
		CAT5E SWITCH CABLE, BLUE (2M)	1	1	*	(Required) For OS 1G Network (Recommended 2M length min)		
	Cables	CAT5E SWITCH CABLE, GREEN (2M)	1	1	*	(Required) For IPMI 1G Network (Recommended 2M length min)		
		EKC1 3M- Active Twinax cable	2	2	*	(Required) For High Speed Network (Recommended 2M length min)		
Required		Country specific FCs (keyboards, language groups) are selectable	1	1	1	User select		
	Misc	Shipping and Handling	1	1	1	User select		

					Con- fig	Per Rack		
					#1			
	MT	Model	FC	Description		Min	Max	Comments
1G Mg	7120	48E		Lenovo G8052 1GbE Switch (48x 10GbE ports + 4x 10GbE ports)	1	1*	1	* Qty 1 required per rack. An additional switch is needed, beyond the qty 1 per rack.
			1118	CAT5E SWITCH CABLE, 3M, YELLOW	1	1		
Mgmt (B			6577	PWR CBL, DRWR TO IBM PDU, MFG SEL LENGTH, 200-240V/10A, IEC320/C13, IEC320/C14	2	2	2	
(Based)				Include all existing FCs; except FCs 0010, 0011, 0712, 0714, EGSx, EHKx, EHLA, 4649 (Rack Integration Services), and 0456 (Customer Specified Placement); do not include these FCs.				Note: FCs ESC0 & ESC1 are not announced and not applicable for switches
16	8831	S52		Mellanox 1Gb Switch	0	0	1	* Qty 1 required per rack. An additional switch is needed, beyond the qty 1 per rack.
_ S			1118	CAT5E SWITCH CABLE, 3M, YELLOW	1	1		
Mgmt (I			6577	PWR CBL, DRWR TO IBM PDU, MFG SEL LENGTH, 200-240V/10A, IEC320/C13, IEC320/C14	2	2	2	
(Base)				Include all existing FCs; except FCs 0010, 0011, 0712, 0714, EGSx, EHKx, EHLA, 4649 (Rack Integration Services), and 0456 (Customer Specified Placement); do not include these FCs.				Note: FCs ESC0 & ESC1 are not announced and not applicable for switches
10G Netv	7120	64C		Lenovo G826410Gb Switch (48x10G + 4x40G)	0	1*	2	
10G Data Network			1118	CAT5E SWITCH CABLE, 3M, YELLOW	1	1		
Data work				Include all existing FCs; except FC 4649, FC 0456 (Customer Specified Placement) and ESC1 (Shipping & Handling), do not include these FCs	2	2	2	
10G Net	8831	S48		Mellanox SX141010Gb Switch (48x10G + 12x40G)	2	1*	2	
etw			EDT6	1U AIR DUCT FOR S48	1	1	1	
10G Data Network				Include all existing FCs; except FC 4649, FC 0456 (Customer Specified Placement) and ESC1 (Shipping & Handling), do not include these FCs	1	1	1	
В	8828	E36		EDR InfiniBand Switch	0	1*	2	* Qty 1 required per rack. An additional switch is needed, beyond the qty 1 per rack.
Data			465x	Rack Indicator - Rack #x	1	1	1	FC 4651 min qty = 1. Use 4652 to 4666 min qty =1 for additional racks
			EDT4	1U AIR DUCT	1	1	1	
Network				Include all existing FCs; except FCs 0010, 0011, 0712, 0714, EGSx, EHKx, EHLA, 4649 (Rack Integration Services), and 0456 (Customer Specified Placement); do not include these FCs.				Note: FCs ESC0 & ESC1 are not announced & not applicable for switches. Power cable MFI BOMs and rail kit MFI BOMs are included with the 8828 & 8831 switches

