



Technical Support Bulletin

Product	SUBJECT		Dossier	Number	Rev
BullSequana SA Server	Spare Parts list for SA0 & SA1		400	21-01	08
Issue Date	Writer	Approved by	Domain	Exp. Date	
September 28, 2023	D. Demougin	P. Arbenz	Level 2	Undef.	

① SA0 BullSequana SA servers (SA10 - SA20)

FRU/CRU	Configuration	Part Number GLS	Description
CRU	BullSequana SA10	GBT-25EK3-R18102-000	HDD tray blue / SA10
CRU	BullSequana SA10	GBT-25EP0-208004-000	PSU 800W - R272-Z31/33 (LOS)
CRU	BullSequana SA10	GBT-25ST2-883829-000	FAN - R272-Z33_R282-Z91/93
CRU	BullSequana SA10	GBT-5CFP2001NR-000	Front panel SA10
FRU	BullSequana SA10	GBT-25HB2-3A0202-000	Rail kit / SA10
FRU	BullSequana SA10	GBT-25ST1-15320E-000	CPU HEATSINK_G242-Z10_R272-Z33_R282-Z91
FRU	BullSequana SA10	GBT-5CBP2021NR-000	Backplane Rear R272-Z30/31/32
FRU	BullSequana SA10	GBT-5CBP2005NR-000	BBACKPLANE 24BAIES 2.5p-R282-Z91/R272-Z3
FRU	BullSequana SA10	GBT-5CEP2600NR-000	SAS Expander module - X430-A5
FRU	BullSequana SA10	GBT-5CPDGDS0NR-000	Riser card 1 / SA10
FRU	BullSequana SA10	GBT-5CPDGDS1NR-000	Riser card 2 / SA10
FRU	BullSequana SA10	GBT-5MZ32AR0NR-000	Motherboard - R272-Z33
CRU	BullSequana SA20	GBT-25EK3-R18102-000	HDD tray blue / 2.5" SA20
CRU	BullSequana SA20	GBT-25EK3-R18104-000	HDD tray orange / 2.5" SA20
CRU	BullSequana SA20	GBT-25EP0-216008-000	PSU 1600W - R282-Z91 (LOS)
CRU	BullSequana SA20	GBT-25ST2-883829-000	FAN - R272-Z33_R282-Z91/93
CRU	BullSequana SA20	GBT-5CNV3024NR-000	NVME HBA / CNV3024
CRU	BullSequana SA20	GBT-5CNVO022NR-000	NVME HBA CNVO022 - X430-A5
CRU	BullSequana SA20	GBT-5CNVO022NR-000	NVME HBA CNVO022 - X430-A5
CRU	BullSequana SA20	GBT-5CNVO134NR-000	NVME HBA CNVO134 - X430-A5
CRU	BullSequana SA20	GTB-9CNV3022NR-000	NVMe HBA CNV3022
FRU	BullSequana SA20	GBT-25HB2-3A0202-000	Rail kit / SA20
FRU	BullSequana SA20	GBT-25ST1-15320E-000	CPU HEATSINK_G242-Z10_R272-Z33_R282-Z91
FRU	BullSequana SA20	GBT-5CBP2020NR-000	Backplane rear / 2x 2,5"
FRU	BullSequana SA20	GBT-5CBP2005NR-000	BBACKPLANE 24BAIES 2.5p-R282-Z91/R272-Z3
FRU	BullSequana SA20	GBT-5CEP2600NR-000	SAS Expander module - X430-A5
FRU	BullSequana SA20	GBT-5CFP2001NR-000	Front panel / SA20
FRU	BullSequana SA20	GBT-5CRS2027NR-000	RISER CARD 1 - CRS2027 - R282-Z91
FRU	BullSequana SA20	GBT-5CRS2033NR-000	RISER CARD 2 - CRS2033 - R282-Z91

FRU/CRU	Configuration	Part Number GLS	Description
FRU	BullSequana SA20	GBT-5MZ92FS0NR-000	Motherboard Dual EPYC 7002 - R282-Z91/93
CRU	BullSequana SA20G	GBT-25EK3-R18101-000	HDD tray blue /3.5" SA20G
CRU	BullSequana SA20G	GBT-25EP0-22000A-000	PSU 2000W - R282-Z93 (LOS)
CRU	BullSequana SA20G	GBT-25ST2-883829-000	FAN - R272-Z33_R282-Z91/93
CRU	BullSequana SA20G	GBT-5CFP2001NR-000	Front panel / SA20G
FRU	BullSequana SA20G	GBT-25HB2-3A0202-000	Rail kit / SA20G
FRU	BullSequana SA20G	GBT-25ST1-44320G-000	CPU HEATSINK - R282-Z93 (A0R)
FRU	BullSequana SA20G	GBT-5CBP20C4NR-000	BACKPLANE 12 BAIES 3.5p - X450-A5
FRU	BullSequana SA20G	GBT-5CRS2014NR-000	RISER CARD 1 - CRS2014 - R282-Z91/93
FRU	BullSequana SA20G	GBT-5CRS2026NR-000	RISER CARD 2 - CRS2026 - R282-Z93
FRU	BullSequana SA20G	GBT-5MZ92FS0NR-000	Motherboard Dual EPYC 7002 - R282-Z91/93
FRU	BullSequana SA0	GBT-5CEPM080NR-000	BACKPLANE MODULE NVMe expander
CRU	BullSequana SA0	21006971-000	LSI Megaraid SAS 9480-8i8e 4Gb card
CRU	BullSequana SA0	21006360-000	LSI SAS9300-8e card
CRU	BullSequana SA0	21006909-000	1.2TB 2.5" SAS HDD 10K 12Gb/s disk
CRU	BullSequana SA0	21006960-000	16Gb/s F/C DP w/o LPe31002 card
CRU	BullSequana SA0	21006969-000	LSI Megaraid SAS 9361-8i 12Gb card Cache Memory (1G)
CRU	BullSequana SA0	21006969B-000	LSI Megaraid SAS 9361-8i 12Gb card Cache Memory (2G)
CRU	BullSequana SA0	05-50077-00-000	MegaRAID 9560-16i, FH, LP bracke
CRU	BullSequana SA0	21007056-000	LSI SAS9400-16i card
CRU	BullSequana SA0	21007175-000	LSI SAS9300-8i card
CRU	BullSequana SA0	21007279-000	32Gb/s F/C DP w/o LPe32002 card
CRU	BullSequana SA0	21007317S11-000	2.4TB 2.5" SAS HDD 10K 12Gb/s disk
CRU	BullSequana SA0	21007432-000	LSI Megaraid SAS 9460-16i 4Gb card
CRU	BullSequana SA0	BCM957414N4140C-000	10Gb/s DP Eth DAC-N210p OCP3 card
CRU	BullSequana SA0	BCM957414N4140C-000	10-25Gb/s DP Eth DAC-N225p OCP3 card
CRU	BullSequana SA0	BCM957416A4160C-000	10Gb/s DP Eth Base-T-P210tp card
CRU	BullSequana SA0	BCM957416M4163C-000	10Gb/s DP Eth Base-T-M210tp OCP card
CRU	BullSequana SA0	936715-000	1Gb/s QP Eth Base-T-I350-T4 card
CRU	BullSequana SA0	05-50077-01-000	9560-8i SINGLE KIT, 4GB, GA, 00
CRU	BullSequana SA0	05-50077-03-000	LSI SAS9500-8i card
CRU	BullSequana SA0	05-50077-02-000	LSI SAS9500-16i card
CRU	BullSequana SA0	05-50077-02-000	HBA Ctr 8e 9500 PCIe4 x8 NO CBL
CRU	BullSequana SA0	GBT-25CFM-65082A-000	X400 9560 RAID CBLE 650mm(A4R)
CRU	BullSequana SA0	GBT-25CFM-720821-000	X400 9560 RAID CBLE 720mm (A4R)
CRU	BullSequana SA0	GBT-25CFM-850822-000	X400 9560 RAID CBLE 850mm (A4R)
CRU	BullSequana SA0	05-60004-00-000	Câble Serial Attached SCSI (SAS) 1 m
CRU	BullSequana SA0	M393A2K43DB2-000	16GB DDR4-3200 ECC RDIMM DR Samsung(CWE)
CRU	BullSequana SA0	M393A4G43AB3-000	32GB DDR4-3200 ECC RDIMM x8 DR Samsung(CWE)
CRU	BullSequana SA0	M393A4K40DB3-000	32GB DDR4-3200 ECC RDIMM x4 DR Samsung(CWE)
CRU	BullSequana SA0	M393A8G40AB2-000	64GB DDR4-3200 ECC RDIMM DR Samsung(CWE)
CRU	BullSequana SA0	MCX4121AACAT-000	25Gb/s DP Eth DAC-CTX4 card
CRU	BullSequana SA0	MCX4121AXCAT-000	10Gb/s DP Eth DAC-CTX4 card

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FRU/CRU	Configuration	Part Number GLS	Description
CRU	BullSequana SA0	MCX4421AACQN-000	10-25Gb/s DP Eth DAC-CTX4 OCP card
CRU	BullSequana SA0	MCX516ACDAT-000	100Gb/s DP Eth DAC-CTX5 card
CRU	BullSequana SA0	MCX516ACDAT-000	100Gb/s DP Eth SR-CTX5 card
CRU	BullSequana SA0	MCX566A-CDAI-000	100Gb/s ConnectX®-5 Ex QSFP28 PCIe4.0x16
CRU	BullSequana SA0	MFM1T02ASR-000	10Gb Optical transceiver for CTX4
CRU	BullSequana SA0	MMA1B00C100D-000	100Gb Optical transceiver QSFP for CTX5
CRU	BullSequana SA0	MMA2P00AS-000	25Gb Optical transceiver SFP28 for CTX4
CRU	BullSequana SA0	MTA18ASF2G72PDZ-000	16GB DDR4-3200 ECC RDIMM DR Micron 3G2E1
CRU	BullSequana SA0	MTA18ASF2G72PDZG-000	16GB 3200MHZ MICRON DR RDIMM ECC
CRU	BullSequana SA0	MTA36ASF4G72PZ-000	32GB DDR4-3200 ECC RDIMM DR Micron 3G2E2
CRU	BullSequana SA0	MTA36ASF8G72PZ-000	64GB DDR4-3200 ECC RDIMM DR Micron 3G2B1
CRU	BullSequana SA0	MTFDDAK1T9TDS-000	1.92TB 2.5" SATA SSD 6Gb/s (1AW1ZABYY)
CRU	BullSequana SA0	MTFDDAK1T9TDT-000	1.92TB Max 2.5" SATA SSD 6Gb/s(1AW1ZABYY)
CRU	BullSequana SA0	MTFDDAK3T8TDS-000	3.84TB 2.5" SATA SSD 6Gb/s (1AW1ZABYY)
CRU	BullSequana SA0	MTFDDAK480TDS-000	480GB 2.5" SATA SSD 6Gb/s (1AW1ZABYY)
CRU	BullSequana SA0	MTFDKCC960TFR-000	960GB PCIe4 U.3 1DWPD 7450PRO(1BC1ZABYY)
CRU	BullSequana SA0	MTFDKCC1T9TFR-000	1.92TB PCIe4U.3 1DWPD 7450PRO(1BC1ZABYY)
CRU	BullSequana SA0	MTFDKCC3T8TFR-000	3.84TB PCIe4U.3 1DWPD 7450PRO(1BC1ZABYY)
CRU	BullSequana SA0	MTFDKCC7T6TFR-000	7.68TB PCIe4U.3 1DWPD 7450PRO(1BC1ZABYY)
CRU	BullSequana SA0	MTFDKCC15T3TFR-000	15.36TB PCIe4U.3 1DWPD7450PRO(1BC1ZABYY)
CRU	BullSequana SA0	MTFDKCC1T6TFS-000	1.6TB PCIe4 U.3 3DWPD 7450MAX(1BC1ZABYY)
CRU	BullSequana SA0	MTFDKCC800TFS-000	800GB PCIe4 U.3 3DWPD 7450MAX(1BC1ZABYY)
CRU	BullSequana SA0	MTFDKCC3T2TFS-000	3.2TB PCIe4 U.3 3DWPD 7450MAX(1BC1ZABYY)
CRU	BullSequana SA0	MTFDKCC6T4TFS-000	6.4TB PCIe4 U.3 3DWPD 7450MAX(1BC1ZABYY)
CRU	BullSequana SA0	ST14000NM004J-000	1x14TB 3.5" SAS HDD 7.2K 12Gb/s disk
CRU	BullSequana SA0	ST18000NM004J-000	1x18TB 3.5" SAS HDD 7.2K 12Gb/s disk
CRU	BullSequana SA0	MTFDDAK960TDS-000	960GB 2.5" SATA SSD 6Gb/s (1AW1ZABYY)
CRU	BullSequana SA0	MTFDDAK960TDT-000	960GB Max 2.5" SATA SSD 6Gb/s(1AW1ZABYY)
CRU	BullSequana SA0	MTFDHBE1T6TDG-000	1x1.6TB Max NVMe U.2 SSD (1AW1ZABYY) (*)
CRU	BullSequana SA0	MTFDHBE1T9TDF-000	1x1.92TB NVMe U.2 SSD disk (1AW1ZABYY) (*)
CRU	BullSequana SA0	MTFDHBE3T8TDF-000	1x3.84TB NVMe U.2 SSD disk (1AW1ZABYY) (*)
CRU	BullSequana SA0	MTFDHBE800TDG-000	1x800GB Max NVMe U.2 SSD (1AW1ZABYY) (*)
CRU	BullSequana SA0	MTFDHBE960TDF-000	1x960GB NVMe U.2 SSD disk (1AW1ZABYY) (*)
CRU	BullSequana SA0	MTFDHBE7T6TDF-000	1x7.68TB NVMe U.2 SSD disk (1AW1ZABYY)
CRU	BullSequana SA0	ST1000NX0303-000	1TB 2.5" SATA HDD 7.2K 6Gb/s disk
CRU	BullSequana SA0	ST1800MM0129-000	1.8TB 2.5" SAS HDD 10K 12Gb/s disk
CRU	BullSequana SA0	ST2000NX0243-000	2TB 2.5" SATA HDD 7.2K 6Gb/s disk
CRU	BullSequana SA0	ST4000NM005A-000	1x4TB 3.5" SAS HDD 7.2K 12Gb/s disk
CRU	BullSequana SA0	ST8000NM001A-000	3.5" HDD SAS3 8TB 512e/4kn 256MB cache
CRU	BullSequana SA0	ST12000NM002G-000	HDD SAS 3.5" 12TB 512e/4kn (Exos X16)
CRU	BullSequana SA0	ST16000NM002G-000	HDD SAS 3.5" 16TB 512e/4kn (Exos X16)
FRU	BullSequana SA0	1000043-000	CPU AMD 16C 7302 (3GHz/204.8GBs/155W)
FRU	BullSequana SA0	1000045-000	CPU AMD 32C 7502P (2.5GHz/204.8GBs/180W)

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FRU/CRU	Configuration	Part Number GLS	Description
FRU	BullSequana SA0	1000047-000	CPU AMD 64C 7702P (2.0GHz/204.8GBs/200W)
FRU	BullSequana SA0	1000048-000	CPU AMD 24C 7402P (2.8GHz/204.8GBs/180W)
FRU	BullSequana SA0	1000049-000	CPU AMD 16C 7302P (3GHz/204.8GBs/155W)
FRU	BullSequana SA0	1000055-000	CPU AMD 64C 7H12 (2.6GHz/204.8GBs/280W)
FRU	BullSequana SA0	1000057-000	CPU AMD 32C 7452 (2.35GHz/204.8GBs/155W)
FRU	BullSequana SA0	1000075-000	CPU AMD 32C 7542 (2.9GHz/204.8GBs/225W)
FRU	BullSequana SA0	1000076-000	CPU AMD 48C 7552 (2.2GHz/204.8GBs/200W)
FRU	BullSequana SA0	1000077-000	CPU AMD 24C 7352 (2.3GHz/204.8GBs/155W)
FRU	BullSequana SA0	1000078-000	CPU AMD 16C 7282 (2.8GHZ/85.3GBs/120W)
FRU	BullSequana SA0	1000079-000	CPU AMD 12C 7272 (2.9GHz/85.3GBs/120W)
FRU	BullSequana SA0	1000080-000	CPU AMD 8C 7252 (3.1GHz/85.3GBs/120W)
FRU	BullSequana SA0	1000081-000	CPU AMD 8C 7232P (3.1GHz/85.3GBs/120W)
FRU	BullSequana SA0	1000137-000	CPU AMD 64C 7662 (2.0GHz/204.8GBs/225W)
FRU	BullSequana SA0	1000139-000	CPU AMD 8C 7F32 (3.7GHz/204.8GBs/180W)
FRU	BullSequana SA0	1000141-000	CPU AMD 24C 7F72 (3.2GHz/204.8GBs/240W)
FRU	BullSequana SA0	1000327-000	CPU AMD 8C 72F3 (3.7GHz/204.8GBs/180W)
FRU	BullSequana SA0	1000321-000	CPU AMD 16C 73F3 (3.5GHz/204.8GBs/240W)
FRU	BullSequana SA0	1000319-000	CPU AMD 24C 74F3 (3.2GHz/204.8GBs/240W)
FRU	BullSequana SA0	1000324-000	CPU AMD 64C 7713 (2.0GHz/204.8GBs/225W)
FRU	BullSequana SA0	1000344-000	CPU AMD Epyc milan 7713 64c 2ghz,225w
FRU	BullSequana SA0	1000318-000	CPU AMD epyc milan 7663, 56c (2.05ghz-225w)
FRU	BullSequana SA0	1000345-000	CPU AMD Epyc milan 7543 32c 2.7ghz,225w
FRU	BullSequana SA0	1000334-000	CPU AMD Epyc milan 7513 32c 2.5ghz,200w
FRU	BullSequana SA0	1000323-000	CPU AMD Epyc milan 7413 24c 2.55ghz,180w
FRU	BullSequana SA0	1000329-000	CPU AMD epyc milan 7313, 16c (2.9ghz-155w)
FRU	BullSequana SA0	1000337-000	CPU AMD epyc milan 7713p, 64c (2.0ghz-225w)
FRU	BullSequana SA0	1000341-000	CPU AMD epyc milan 7543p, 32c (2.7ghz-225w)
FRU	BullSequana SA0	1000342-000	CPU AMD epyc milan 7443p, 24c (2.75ghz-200w)
FRU	BullSequana SA0	1000339-000	CPU AMD epyc milan 7313p, 16c (2.9ghz-155w)
FRU	BullSequana SA0	21007369-000	1 GPU Nvidia V100, 32GB card
FRU	BullSequana SA0	21007373-000	1 GPU Nvidia T4, 16GB card
FRU	BullSequana SA0	9002G1500050-000	1 GPU Nvidia RTX8000, 48GB card
FRU	BullSequana SA0	9002G1330000-000	1 GPU Nvidia Ampère A40 48GB - PCIe4
FRU	BullSequana SA0	900210010000-000	NVidia A100 40GB passive PCIe4x1
FRU	BullSequana SA0	9002G1710000-100-000	Nvidia A16 (64GB)

(*) NVMe™ drives 1AW4ZABYY [4096 byte (4K) sector drives] have been reformatted to 512 bytes in Factory. They must be replaced as spare parts with 1AW1ZABYY [default 512 byte sector format].

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② [SA1] BullSequana SA servers (SA11 - SA21)

FRU/CRU	SA11a	SA21a	SA21Sa	SA11i	SA21i	SA21Si	Ref GLS	Component Type	Vendor	Technical Reference	Description / misc / Model
CRU	x			x			GBT-25EP0-213005-000	SA1 Server	Eviden	25EP0-213005-G1S	PSU MODULE 12Vsb/12V 1300W Gospower
CRU		x			x		GBT-25EP0-21600D-000	SA1 Server	Eviden	25EP0-21600D-G1S	PSU MODULE 12Vsb/12V 1600W Gospower
CRU		x			x		GBT-25EP0-21600J-L0S-000	SA1 Server	Eviden	25EP0-21600J-L0S	PSU MODULE 12Vsb/12V 1600W Lite-on
CRU			x			x	GBT-25EP0-22000J-000	SA1 Server	Eviden	25EP0-22000J-G1S	PSU MODULE 12Vsb/12V 2000W Gospower
CRU			x			x	GBT-25EP0-22000K-L0S-000	SA1 Server	Eviden	25EP0-22000K-L0S	PSU MODULE 12Vsb/12V 2000W Lite-on
CRU	x			x			GBT-25HB2-3A0203-000	SA1 Server	Eviden	25HB2-3A0203-K0R	RAIL KIT INT+OUT 3A02-600 KS
CRU		x	x		x	x	GBT-25HB2-3A0206-000	SA1 Server	Eviden	25HB2-3A0206-K0R	RAIL KIT INT+OUT 3A02-600 KS
CRU		x			x		GBT-25ST2-40562H-A0R-000	SA1 Server	Eviden	25ST2-40562H-A0R	FAN 40x40x56mm 3200rpm 2BALL
CRU	x		x	x		x	GBT-25ST2-88382T-000	SA1 Server	Eviden	25ST2-88382T-S1R	FAN 80x80x38mm 18300rpm 2BALL
FRU					x	x	GBT-5AS93FS0UR-000-10B-000	SA1 Server	Eviden	5AS93FS0UR-000-10B	MS93-FS0 10B+CBG41*2
FRU					x	x	GBT-5CDCR112NR-00-11E-000	SA1 Server	Eviden	5CDCR112NR-00-11E	G-SC MODULE CARD CDCR112 1.1E
FRU		x	x				GBT-5CDCR114NR-00-11E-000	SA1 Server	Eviden	5CDCR114NR-00-11E	G-SC MODULE CDCR114 1.1E
FRU				x			GBT-5MS33DC0UR-000-10D-000	SA1 Server	Eviden	5MS33DC0UR-000-10D	M/B MS33-DC0 1.0D UPD
FRU	x						GBT-5MZ33DC0UR-000	SA1 Server	Eviden	5MZ33DC0UR-000-10A	M/B MZ33-DC0 1.0A UPD
FRU		x	x				GBT-5MZ93FS0UR-000-11F-000	SA1 Server	Eviden	5MZ93FS0UR-000-11F	M/B MZ93-FS0 1.1F
FRU					x	x	GBT-5CRS101JNR-000	SA1 Server	Eviden	5CRS101JNR-00-11B	RISER CARD CRS101J 1.1B
FRU					x	x	GBT-5CRS101KNR-000	SA1 Server	Eviden	5CRS101KNR-00-11A	RISER CARD CRS101K 1.1A
FRU		x	x				GBT-5CRS101QNR-000	SA1 Server	Eviden	5CRS101QNR-00-10C	RISER CARD CRS101Q 1.0C
FRU		x	x				GBT-5CRS101TNR-000	SA1 Server	Eviden	5CRS101TNR-00-10D	RISER CARD CRS101T 1.0D
FRU				x			GBT-5CRS201CNR-000	SA1 Server	Eviden	5CRS201CNR-00-10A	RISER CARD CRS201C 1.0A
FRU				x			GBT-5CRS201DNR-000	SA1 Server	Eviden	5CRS201DNR-00-10A	RISER CARD CRS201D 1.0A
FRU	x						GBT-5CRS201HNR-000	SA1 Server	Eviden	5CRS201HNR-00-10A	RISER CARD CRS201H 1.0A
FRU	x						GBT-5CRS201MNR-000	SA1 Server	Eviden	5CRS201MNR-00-10A	RISER CARD CRS201M 1.0A

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FRU/CRU	SA11a	SA21a	SA21Sa	SA11i	SA21i	SA21Si	Ref GLS	Component Type	Vendor	Technical Reference	Description / misc / Model
FRU						x	GBT-5CRS202GNR-000	SA1 Server	Eviden	5CRS202GNR-00-11A	2U RISER CARD CRS202G 1.1A
FRU						x	GBT-5CRS202HNR-000	SA1 Server	Eviden	5CRS202HNR-00-11A	2U RISER CARD CRS202H 1.1A
FRU			x				GBT-5CRS202MNR-000	SA1 Server	Eviden	5CRS202MNR-00-10A	RISER CARD CRS202M 1.0A
FRU			x				GBT-5CRS202NNR-000	SA1 Server	Eviden	5CRS202NNR-00-10A	2U RISER CARD CRS202N 1.0A
FRU		x			x		GBT-5CFB12NR-000	SA1 Server	Eviden	5CFB12NR-00-20A	FAN CARD CFB12 2.0A
FRU		x			x		GBT-5CFP1030NR-000	SA1 Server	Eviden	5CFP1030NR-00-11A	FRONT PANNEL BOARD CFP1030
FRU	x		x	x		x	GBT-5CFP2001NR-000	SA1 Server	Eviden	5CFP2001NR-00-11A	FRONT PANNEL CFP2001 1.1A
FRU			x				GBT-5CEP26P0NR-000	SA1 Server	Eviden	5CEP26P0NR-00-10B	EXPENDER CARD CEP26P0 1.0B
CRU	x	x	x	x	x	x	MTFDKCC800TFS-000	Drive	Micron	MTFDKCC800TFS-1BC1ZABYY	7450MAX - 1x800GB NVMe U3 15mm SSD 3DWPD
CRU	x	x	x	x	x	x	MTFDKCC1T6TFS-000	Drive	Micron	MTFDKCC1T6TFS-1BC1ZABYY	7450MAX - 1x1.6TB NVMe U3 15mm SSD 3DWPD
CRU	x	x	x	x	x	x	MTFDKCC3T2TFS-000	Drive	Micron	MTFDKCC3T2TFS-1BC1ZABYY	7450MAX - 1x3.2TB NVMe U3 15mm SSD 3DWPD
CRU	x	x	x	x	x	x	MTFDKCC6T4TFS-000	Drive	Micron	MTFDKCC6T4TFS-1BC1ZABYY	7450MAX - 1x6.4TB NVMe U3 15mm SSD 3DWPD
CRU	x	x	x	x	x	x	MTFDKCC960TFR-000	Drive	Micron	MTFDKCC960TFR-1BC1ZABYY	7450PRO - 1x960GB NVMe U3 15mm SSD 1DWPD
CRU	x	x	x	x	x	x	MTFDKCC1T9TFR-000	Drive	Micron	MTFDKCC1T9TFR-1BC1ZABYY	7450PRO - 1x1.9TB NVMe U3 15mm SSD 1DWPD
CRU	x	x	x	x	x	x	MTFDKCC3T8TFR-000	Drive	Micron	MTFDKCC3T8TFR-1BC1ZABYY	7450PRO - 1x3.8TB NVMe U3 15mm SSD 1DWPD
CRU	x	x	x	x	x	x	MTFDKCC7T6TFR-000	Drive	Micron	MTFDKCC7T6TFR-1BC1ZABYY	7450PRO - 1x7.6TB NVMe U3 15mm SSD 1DWPD
CRU	x	x	x	x	x	x	MTFDKCC15T3TFR-000	Drive	Micron	MTFDKCC15T3TFR-1BC1ZABYY	7450PRO - 1x15.3TB NVMe U3 15mm SSD 1DWPD
CRU	x			x			ST14000NM004J-000	Drive	Seagate	ST14000NM004J	Exos X18 - 1x14TB 3.5" SAS 7.2K 12Gb/s HDD
CRU	x			x			ST18000NM004J-000	Drive	Seagate	ST18000NM004J	Exos X18 - 1x18TB 3.5" SAS 7.2K 12Gb/s HDD
CRU	x			x			ST4000NM025B-000	Drive	Seagate	ST4000NM025B	Exos 7E10 - 1x4TB 3.5" SAS 7.2K 12Gb/s HDD
CRU	x			x			ST8000NM018B-000	Drive	Seagate	ST8000NM018B	Exos 7E10 - 1x8TB 3.5" SAS 7.2K 12Gb/s HDD
CRU	x	x	x	x	x	x	MTFDDAK480TGA-000	Drive	Micron	MTFDDAK480TGA-1BC1ZABYY	5400PRO - 1x480GB 2.5" 6Gb/s SATA SSD 1.5DWPD
CRU	x	x	x	x	x	x	MTFDDAK960TGA-000	Drive	Micron	MTFDDAK960TGA-1BC1ZABYY	5400PRO - 1x960GB 2.5" 6Gb/s SATA SSD 1.5DWPD
CRU	x	x	x	x	x	x	MTFDDAK1T9TGA-000	Drive	Micron	MTFDDAK1T9TGA-1BC1ZABYY	5400PRO - 1x1.9TB 2.5" 6Gb/s SATA SSD 1.5DWPD
CRU	x	x	x	x	x	x	MTFDDAK3T8TGA-000	Drive	Micron	MTFDDAK3T8TGA-1BC1ZABYY	5400PRO - 1x3.8TB 2.5" 6Gb/s SATA SSD 1.5DWPD
CRU	x	x	x	x	x	x	MTFDDAK7T6TGA-000	Drive	Micron	MTFDDAK7T6TGA-1BC1ZABYY	5400PRO - 1x7.6TB 2.5" 6Gb/s SATA SSD 0.6DWPD

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FRU				x	x	x	99C6L5-000	CPU	Intel	3408U OPN PK8071305118600	INTEL 8C 3408U (1.8GHz/22.5MB L3/125W)
FRU				x	x	x	21007887-000	CPU	Intel	4410Y OPN PK8071305120002	INTEL 12C 4410Y (2GHz/30MB L3/150W)
FRU				x	x	x	99C6LH-000	CPU	Intel	4416+ OPN PK8071305120201	INTEL 20C 4416+ (2GHz/37.5MB L3/165W)
FRU				x	x	x	99C6M1-000	CPU	Intel	5412U OPN PK8071305120401	INTEL 24C 5412U (2.1GHz/45MB L3/185W)
FRU				x	x	x	21008052-000	CPU	Intel	5415+ OPN PK8071305118701	INTEL 8C 5415+ (2.9GHz/22.5MB L3/150W)
FRU				x	x	x	21007886-000	CPU	Intel	5416S OPN PK8071305122201	INTEL 16C 5416S (2GHz/30MB L3/150W)
FRU				x	x	x	21007884-000	CPU	Intel	5418Y OPN PK8071305120301	INTEL 24C 5418Y (2GHz/45MB L3/185W)
FRU				x	x	x	99C6M4-000	CPU	Intel	5420+ OPN PK8071305120600	INTEL 28C 5420+ (2GHz/52.5MB L3/205W)
FRU				x	x	x	99C2DC-000	CPU	Intel	6414U OPN PK8071305072001	INTEL 32C 6414U (2GHz/60MB L3/250W)
FRU				x	x	x	99C6LG-000	CPU	Intel	6426Y OPN PK8071305120102	INTEL 16C 6426Y (2.5GHz/37.5MB L3/185W)
FRU				x	x	x	21007903-000	CPU	Intel	6430 OPN PK8071305072902	INTEL 32C 6430 (2.1GHz/60MB L3/270W)
FRU				x	x	x	21007906-000	CPU	Intel	6434 OPN PK8071305118801	INTEL 8C 6434 (3.7GHz/22.5MB L3/195W)
FRU				x	x	x	21007883-000	CPU	Intel	6438M OPN PK8071305122301	INTEL 32C 6438M (2.2GHz/60MB L3/205W)
FRU				x	x	x	99C6M7-000	CPU	Intel	6438Y+ OPN PK8071305120701	INTEL 32C 6438Y+ (2GHz/60MB L3/205W)
FRU				x	x	x	99C6M3-000	CPU	Intel	6442Y OPN PK8071305120500	INTEL 24C 6442Y (2.6GHz/60MB L3/225W)
FRU				x	x	x	21007885-000	CPU	Intel	6444Y OPN PK8071305121400	INTEL 16C 6444Y (3.6GHz/45MB L3/270W)
FRU				x	x	x	99C6MD-000	CPU	Intel	6448Y OPN PK8071305120802	INTEL 32C 6448Y (2.1GHz/60MB L3/225W)
FRU				x	x	x	99C2DP-000	CPU	Intel	6454S OPN PK8071305073001	INTEL 32C 6454S (2.2GHz/60MB L3/270W)
FRU				x	x	x	21007905-000	CPU	Intel	8452Y OPN PK8071305076101	INTEL 36C 8452Y (2GHz/67.5MB L3/300W)
FRU				x	x	x	21007881-000	CPU	Intel	8458P OPN PK8071305073301	INTEL 44C 8458P (2.7GHz/82.5MB L3/350W)
FRU				x	x	x	21007902-000	CPU	Intel	8460Y+ OPN PK8071305072601	INTEL 40C 8460Y+ (2GHz/105MB L3/300W)
FRU				x	x	x	99C2DT-000	CPU	Intel	8461V OPN PK8071305073201	INTEL 48C 8461V (2.2GHz/97.5MB L3/300W)
FRU				x	x	x	99C6NR-000	CPU	Intel	8462Y+ OPN PK8071305120901	INTEL 32C 8462Y+ (2.8GHz/60MB L3/300W)
FRU				x	x	x	21007901-000	CPU	Intel	8468 OPN PK8071305072501	INTEL 48C 8468 (2.1GHz/105MB L3/350W)
FRU				x	x	x	21007880-000	CPU	Intel	8468V OPN PK8071305073101	INTEL 48C 8468V (2.4GHz/97.5MB L3/330W)
FRU				x	x	x	21007879-000	CPU	Intel	8470 OPN PK8071305072401	INTEL 52C 8470 (2GHz/105MB L3/350W)

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FRU				x	x	x	21007904-000	CPU	Intel	8480+ OPN PK8071305074801	INTEL 56C 8480+ (2GHz/105MB L3/350W)
FRU	x	x	x				1000789-000	CPU	AMD	100-000000789	AMD 96C 9654 (2.4GHz/384MB L3/360W)
FRU	x	x	x				1000797-000	CPU	AMD	100-000000797	AMD 84C 9634 (2.25GHz/384MB L3/290W)
FRU	x	x	x				1000790-000	CPU	AMD	100-000000790	AMD 64C 9554 (3.10GHz/256MB L3/360W)
FRU	x	x	x				1000799-000	CPU	AMD	100-000000799	AMD 64C 9534 (2.45GHz/256MB L3/280W)
FRU	x	x	x				1000478-000	CPU	AMD	100-000000478	AMD 48C 9454 (2.75GHz/256MB L3/290W)
FRU	x	x	x				1000798-000	CPU	AMD	100-000000798	AMD 32C 9354 (3.25GHz/256MB L3/280W)
FRU	x	x	x				1000800-000	CPU	AMD	100-000000800	AMD 32C 9334 (2.70GHz/128MB L3/210W)
FRU	x	x	x				1000480-000	CPU	AMD	100-000000480	AMD 24C 9254 (2.90GHz/128MB L3/200W)
FRU	x	x	x				1000939-000	CPU	AMD	100-000000939	AMD 24C 9224 (2.50GHz/64MB L3/200W)
FRU	x	x	x				1000802-000	CPU	AMD	100-000000802	AMD 16C 9124 (3.00GHz/64MB L3/200W)
FRU	x	x	x				1000788-000	CPU	AMD	100-000000788	AMD 48C 9474F (3.60GHz/256MB L3/360W)
FRU	x	x	x				1000792-000	CPU	AMD	100-000000792	AMD 32C 9374F (3.85GHz/256MB L3/320W)
FRU	x	x	x				1000794-000	CPU	AMD	100-000000794	AMD 24C 9274F (4.05GHz/256MB L3/320W)
FRU	x	x	x				1000796-000	CPU	AMD	100-000000796	AMD 16C 9174F (4.10GHz/256MB L3/320W)
FRU	x	x	x				1000803-000	CPU	AMD	100-000000803	AMD 96C 9654P (2.40GHz/384MB L3/360W)
FRU	x	x	x				1000804-000	CPU	AMD	100-000000804	AMD 64C 9554P (3.10 GHz/256MB L3/360W)
FRU	x	x	x				1000873-000	CPU	AMD	100-000000873	AMD 48C 9454P (2.75GHz/256MB L3/290W)
FRU	x	x	x				1000805-000	CPU	AMD	100-000000805	AMD 32C 9354P (3.25GHz/256MB L3/280W)
CRU	x	x	x	x	x	x	M321R2GA3BB6-CQK-000	Memory	samsung	M321R2GA3BB6-CQK	2x16GB DDR5 4800 ECC RDIMM SR8
CRU	x	x	x	x	x	x	M321R4GA0BB0-CQK-000	Memory	samsung	M321R4GA0BB0-CQK	2x32GB DDR5 4800 ECC RDIMM SR4
CRU	x	x	x	x	x	x	M321R8GA0BB0-CQK-000	Memory	samsung	M321R8GA0BB0-CQK	2x64GB DDR5 4800 ECC RDIMM DR4
CRU	x	x	x	x	x	x	21007823-000	Transceiver	Mellanox	MMA1B00-C100D	100GBASE-SR4 QSFP28 transceiver
CRU	x	x	x	x	x	x	AFBR-735SMZ-000	Transceiver	Broadcom	AFBR-735SMZ	25GBASE-SR SFP28 transceiver
CRU	x	x	x	x	x	x	AFBR-710DMZ-000	Transceiver	Broadcom	AFBR-710DMZ	10GBASE-SR SFP PLUS transceiver
CRU	x	x	x	x	x	x	TPM220G-0002-000	Module TPM	Eviden	TPM200G-0002	Optional TPM2.0 kit

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FRU/CRU	SA11a	SA21a	SA21Sa	SA11i	SA21i	SA21Si	Ref GLS	Component Type	Vendor	Technical Reference	Description / misc / Model
CRU	x	x	x	x	x	x	936715-000	Adapter - Network	Intel	I350T4V2	I350T4 1GbE QP BASE-T V2 PCIe card
CRU	x	x	x	x	x		BCM957414N4140C-000	Adapter - Network	Broadcom	BCM957414N4140C	N225P 10-25GbE DP DAC OCP3 card
CRU	x	x	x	x	x	x	BCM957414A4142CC-000	Adapter - Network	Broadcom	BCM957414A4142CC	P225P 10-25GbE DP DAC PCIe card
CRU	x	x	x	x	x		BCM957504-N425G-000	Adapter - Network	Broadcom	BCM957504-N425G	N425G 10-25GbE QP DAC OCP3 card
CRU	x	x	x	x	x	x	BCM957504-P425G-000	Adapter - Network	Broadcom	BCM957504-P425G	P425G 10-25GbE QP DAC PCIe card
CRU	x	x	x	x	x		BCM957416N4160C-000	Adapter - Network	Broadcom	BCM957416N4160C	N210TP 10GbE DP BASE-T OCP3 card
CRU	x	x	x	x	x	x	21007085-000	Adapter - Network	Broadcom	BCM957416A4160C	P210TP 10GbE DP BASE-T PCIe card
CRU	x	x	x	x	x		900-9X658-0056-SB1-000	Adapter - Network	Mellanox	900-9X658-0056-SB1 / MCX623436AN-CDAB	CX6 100GbE DP DAC OCP3 card
CRU	x	x	x	x	x	x	21007821-000	Adapter - Network	Mellanox	900-9X6AG-0056-ST1 / MCX623106AN-CDAT	CX6 100GbE DP DAC PCIe card
CRU	x	x	x	x	x	x		Adapter - Network	Mellanox	900-9X7AH-0079-DTZ / MCX755106AC-HEAT	CX7 200GbE DP DAC PCIe card w crypto
CRU	x	x	x	x	x	x	05-50134-03-000	Adapter - RAID	Broadcom	05-50134-03	Megaraid SAS 9540-8i card
CRU	x	x	x	x	x	x	05-50077-00-000	Adapter - RAID	Broadcom	05-50077-02	Megaraid SAS 9560-16i 8GB card
CRU	x	x	x	x	x	x	05-50039-00-000	Adapter - RAID	Broadcom	05-50039-00	Cache protection Module Megaraid 95xx
CRU	x	x	x	x	x	x		Adapter - RAID	Broadcom	L5-25376-00	Remote Mounting Board for CVPM
CRU	x	x	x	x	x	x	05-50077-03-000	Adapter - HBA	Broadcom	05-50077-03	HBA SAS 9500-8i card
CRU	x	x	x	x	x	x		Adapter - HBA	Broadcom	05-50077-02	HBA SAS 9500-16i card
CRU	x	x	x	x	x	x	05-50075-01-000	Adapter - HBA	Broadcom	05-50075-01	HBA SAS 9500-8e card
CRU	x	x	x	x	x	x	21006960-000	Adapter - FC	Broadcom	LPe31002-M6	LPe31002 FC16 DP PCIe card
CRU	x	x	x	x	x	x	LPE35002-M2-000	Adapter - FC	Broadcom	LPe35002-M2	LPe35002 FC32 DP PCIe card
CRU	x	x	x	x	x	x	21007860-000	Adapter - FC	Broadcom	LPe36002-M64	LPe36002 FC64 DP PCIe card

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