

Continuum 600/1200 Series (PA-7100) Service Announcement

(8/12/98)



Revision History

12/23/97 - Revision 2.
02/24/98 - Updated Section 4; Added Section 6.
03/31/98 - Updated Section 8.4.
05/07/98 - Added Model 615 to Section 4.1.
06/02/98 - Updated Section 4.1.
06/16/98 - Updated Section 1 and Section 3.1.
06/22/98 - Updated Section 3.3.
07/06/98 - Reformatted Document.
07/20/98 - Updated Section 3.3.
07/27/98 - Updated Sections 4.1 and 4.3.
08/07/98 - Updated Section 6.1.
08/12/98 - Updated Section 4.1.

1. Overview

The Continuum 600/1200 Series systems are the first Stratus RISC systems based on the Hewlett Packard PA-RISC HP7100 microprocessor and a new system bus architecture. The Series 600 is an entry-level to mid-range system designed around a 6-slot backplane in the Central Electronic Cabinet (CEC). The Series 1200 version is an expandable high-end system featuring a 12-slot CEC backplane.

The CEC cabinet main chassis boards in the 600/1200 Series include the following:

- **CPU-Memory Board** - The CPU-Memory board is available in two designs: uniprocessor (one logical/ two physical CPUs) and twin processor (two logical/four physical CPUs). Both are available in 72 or 96 MHz versions with 256 KB instruction cache (Icache) and 256 KB data cache (Dcache) or 1 MB Icache and 1 MB Dcache. Memory sizes range from 128 MB to 512 MB using 128-MB (M702) memory modules, or 512 MB to 2 GB using 512-MB (M713) memory modules. For the most current information on available memory refer to the [Continuum Memory Subsystem Technical Reference](#). The document is also available in PDF format at <http://www.cac.stratus.com/CSDoc/home/continuum600.htm>.

- **SCSI-ENET Controller** - The SCSI-ENET controller is the interface between the system bus and the SCSI and Ethernet I/O devices. It contains four differential SCSI interface ports (used for interfacing with mass storage devices such as the D700 disk/tape subsystem and T204/T403 tape drives) and one Ethernet port. Each pair of SCSI-ENET controllers can support up to 48 physical disk drives.
- **IO Processor** - The IO processor manages IO operations, primarily to IOA communications adapters and certain peripheral devices. It interfaces the system bus to two 8-bit IO busses. Each pair of IO processors can support two IOA chassis.
- **K470 PMC I/O Controller** - High-speed I/O subsystem based on the Peripheral Component Interconnect (PCI) bus. It provides interconnect to the system backplane for up to three PCI I/O adapters in PMC (PCI Mezzanine Card) form factor.

CPU-Memory boards reside in four dedicated slots in the backplane. The remaining slots are configured with SCSI-ENET controllers or IO processors. Recommended slot assignments for various models are shown later in this document.

The CEC cabinet in an AC system contains an AC/DC power system that provides 3600 watts of N+1 DC power. The AC/DC power system residing in each expansion cabinet (except the AC peripheral cabinet, which has no power) provides 2400 watts of N + 1 DC power.

Continuum systems are also designed to be fully Central Office (CO) installable utilizing -48 V DC input power. Each CEC cabinet and DC expansion cabinet in a CO system contains two DC power controllers.

There is no physical control panel on Continuum 600/1200 Series systems. Operating commands are entered at the system console which is connected to the system via the Console Controller card in the CEC cabinet.

2. Operating System Requirements

System	VOS	FTX
AC systems	Minimum release 13.0	Minimum release 3.0
DC systems	Minimum release 14.0.1	Minimum release 3.0

3. Hardware Components

NOTE: The hardware components shown in the following tables are at the base minimum revisions approved for operation at the time of publication. For current revision requirements and complete revision history, refer to the [HQ Service Support Rev Dir](#).

3.1 Main Chassis Boards

NOTE: Models G731-G748 contain 128-MB memory modules; models G751-G758 contain 512-MB memory modules.

NOTE: Although their descriptions are similar, models G731 thru G748 (sub model 00) are not compatible with models G731 thru G748 (sub model 20). If used together, a sub model mismatch failure will be generated.

Model	Description	Min VOS
G731-G734 (sub model 00)	72 MHz CPU-Memory (Uniprocessor, 128-512 MB memory, 512 KB cache)	13.0
G731-G734 (sub model 20)	72 MHz CPU-Memory (Uniprocessor, 128-512 MB memory, 512 KB cache)	13.1
G735-G738 (sub model 00)	72 MHz CPU-Memory (Twin processor, 128-512 MB memory, 512 KB cache)	13.0
G735-G738 (sub model 20)	72 MHz CPU-Memory (Twin processor, 128-512 MB memory, 512 KB cache)	13.1
G741-G744 (sub model 00)	96 MHz CPU-Memory (Uniprocessor, 128-512 MB memory, 2 MB cache)	13.0
G741-G744 (sub model 20)	96 MHz CPU-Memory (Uniprocessor, 128-512 MB memory, 2 MB cache)	13.1
G745-G748 (sub model 00)	96 MHz CPU-Memory (Twin processor, 128-512 MB memory, 2 MB cache)	13.0
G745-G748 (sub model 20)	96 MHz CPU-Memory (Twin processor, 128-512 MB memory, 2 MB cache)	13.2.1
G751-G754 (sub model 20)	96 MHz CPU-Memory (Uniprocessor, 512 MB-2 GB memory, 2 MB cache)	
G755-G758 (sub model 20)	96 MHz CPU-Memory (Twin processor, 512 MB-2 GB memory, 2 MB cache)	
K450*	SCSI-ENET controller	13.0**
K460*	HSC SCSI-ENET controller	13.2
K600	IO processor	13.0
K470	PMC I/O Controller	14.1

* K460 has replaced the K450.

** Release 13.1 for Ethernet support.

3.2 IOA Boards

3.2.1 K-Cards

Model	Description	Minimum OS Rel.

Model	Type	Chassis Label	Description		
				VOS	FTX
K101	1	COMM ADAPTER	Full-modem mcomm	13.0	NA
K101-20	1B	COMM	Full-modem mcomm	13.0	NA
K102	2	COMM ADAPTER	Full-modem ucomm - RS-232/422	13.0	3.0
K102-10	2A	COMM ADAPTER	Full-modem ucomm - RS-232/422	13.0	3.0
K104	1	ETHERNET ADAPTER.	Ethernet	13.0	3.0
K104-10	1A	ETHERNET ADAPTER.	Ethernet low power	13.0	3.0
K108-10	2	TERM	Terminator	13.0	3.0
K109	4	COMM ADAPTER	Full-modem ucomm - RS-232/423	13.0	3.0
K110	1	PRINTER ADAPTER	IBM (L322) printer	13.0	NA
K112	6	COMM ADAPTER	Full-modem ucomm - RS-232/V.35	13.0	3.0
K112-30	6	COMM ADAPTER	Full-modem ucomm - RS-232/V.35	13.0	3.0
K112-40	6	COMM ADAPTER	Full-modem ucomm - RS-232/V.35		
K113-01	1	CHANNEL	Channel attach interface	13.1	NA

K114	8	COMM	X.21/RS-232	13.0	3.0
K114-10	8	COMM	X.21/RS-232		
K115	8	TOKEN RING	Token ring	13.0	NA
K115-10	8	TOKEN RING	Token ring	13.0	NA
K118	9	COMM ADAPTER	16-port async	13.0	3.0
K120	11	COMM	DataKit VCS interface	13.1	3.0
K124	12	COMM	ISDN X.25 primary rate	13.0	3.0
K124-10	12A	COMM	ISDN X.25 primary rate	13.0	3.0
K124-20	12A	COMM	ISDN X.25 primary rate		
K125	13	COMM	ISDN X.25 basic rate	NA	3.0
K127	2	PRINT	NEC printer	NA	3.0.1

3.2.2 PMC Cards

Note: The PMC cards shown in the following table are based on information available at the time of publication. For current (and more detailed) PMC information refer to the [PCI/PMC Adapter Technical Reference](#). The document is also available in PDF format at <http://www.cac.stratus.com/CSDoc/home/comm.htm>.

Adapter	Model No.	Speed	Min. VOS Release	Min. FTX Release
Ethernet	U713	100 Mbps	VOS 14.1	
Token Ring	U720	4/16 Mbps	VOS 14.1	
FDDI	U730	100 Mbps	VOS 14.1	
ATM	U741	155 Mbps	VOS 14.2	

3.3 Peripherals

Note: The disk and tape drives shown in the following table are based on information available at the time of publication. For current (and more detailed) disk information refer to the [Continuum Disk Drives Technical Reference](#). The document is also available in PDF format at at

<http://www.cac.stratus.com/CSDoc/home/disk.htm>. For more information on tape drives, refer to the [DDS DAT Tape Drive Technical Reference](#). The document is also available in PDF format at <http://www.cac.stratus.com/CSDoc/home/tape.htm>.

Model	Description	Minimum OS Release	
		VOS	FTX
D701*	1 GB (5400 rpm, 3 1/2") disk drive	13.0	3.0
D702**	2 GB (5400 rpm, 3 1/2") disk drive	13.0	3.0
D703*	1 GB (7200 rpm, 3 1/2") disk drive	13.0.1	3.0.0.1
D704	2 GB (7200 rpm, 3 1/2") disk drive	13.0.1	3.1.1
D704-10	2 GB (7200 rpm, 3 1/2") disk drive	13.3.2	3.1 with patch
D705	4 GB (7200 rpm, 3 1/2") disk drive	13.0.1	3.1.1
D705-10	4 GB (7200 rpm, 3 1/2") disk drive	13.1.1	3.1.1
D705-20	4 GB (7200 rpm, 3 1/2") disk drive	13.3.1	3.1 with patch
D705-30	4 GB (7200 rpm, 3 1/2") disk drive	13.3.1 with patch	3.1 with patch
D706	9 GB (7200 rpm, 3 1/2") disk drive	13.3.2	3.2
D706 -10	9 GB (7200 rpm, 3 1/2") disk drive	13.3.2	3.2
D707	18 GB (7200 rpm, 3 1/2") disk drive	14.1	3.4
T204-001	6250 bpi 1/2" SCSI tape drive	13.1	3.0.1
T204-002	6250 bpi 1/2" SCSI tape drive (table top)	13.1	3.0.1
T403-001	3480/3490 media-compatible tape drive (1 drive)	13.1	3.0.1
T403-002	3480/3490 media-compatible tape drive (2 drives)	13.1	3.0.1
T403-003	3480/3490 media-compatible tape drive(1 drive, table top)	13.1	3.0.1
T404	4-GB, 3490E media-compatible, tape drive (10-cartridge)	14.2	3.4
T701	4-mm DAT II (3 1/2") tape drive	13.1	3.0.1
T702	4-mm DAT II (3 1/2") tape drive with autoloader	13.1	3.0.1
T704	QIC 525-MB/1.2-GB cartridge tape drive	13.4/14.2	3.2
T705	12-GB, DDS3 DAT tape drive (1 cartridge)	14.0	3.3
T706	72-GB, DDS3 DAT tape drive (6-cartridge autoloader)	14.0	3.3
U201	Channel interface unit (CIU)	13.1	
U201-01	Dual channel interface unit	13.1	
U250	Remote I/O (RIO) (standalone/external)	13.2	3.0.1
U250-10	Remote I/O (RIO) (cabinet mounted)	13.2	3.0.1

L306-10	Band printer (600 lpm, 110 volt)	13.0	3.0
L306-20	Band printer (600 lpm, 220 volt)	13.0	3.0
L401	Band Printer (900 lpm, 110/220 volt)		
C319	RSN modem (9600 bps)	13.0	3.0
C419	RSN modem (14400 bps)		
D758	CD-ROM drive	NA	3.4

* The D701 and D703 are no longer sold.

** The D702 has been replaced by the D704.

3.4 Expansion Cabinets

Model	Description	Minimum OS Release	
		VOS	FTX
E601	Used on all Central Office systems. Contains an internal DC power controller.	13.0	3.0
E610	Used on all AC systems. Contains an internal 2400W AC/DC power system.	13.0	3.0
E612	Used for housing AC peripherals (T204-001 and T403-001/002 tape drives, U201 CIU for channel attach, and U250-10 remote I/O)	13.0 (13.1 for channel attach)	3.0
E612-NP	Contains no power. Used for housing DB25 interconnect panels for the K118,	13.0	3.0

4. System Configurations

NOTE: The configurations shown in the following tables are based on information available at the time of publication. For current (and more detailed) configuration information refer to the [Continuum Series 600/1200 Configuration Specification\(ES-000076\)](#).

4.1 Series 600 Configurations

Component	Model 610S (VOS OS only)	Model 610	Model 615**	Model 615S (VOS OS only)***	Model 620
CPU-Memory board	G731	G731-G734	G741-G744	G741	G735-G738

# CPU-Memory boards	2	2	2	2	2
# Logical CPUs	1	1	1	1	2
Duplexed memory (M702 128-MB memory modules)	Min. = 128 MB Max. = 128 MB	Min. = 128 MB Max. = 512 MB	Min. = 128 MB Max. = 512 MB	Min. = 128 MB Max. = 128 MB	Min. = 256 MB Max. = 512 MB
Duplexed memory (M713 512-MB memory modules)*	NA	NA	Min. = 1 GB Max. = 2 GB	NA	NA
# IO processors	Min. = 0 Max. = 2	Min. = 0 Max. = 2	Min. = 0 Max. = 2	Min. = 0 Max. = 2	Min. = 0 Max. = 2
# SCSI-ENET controllers	Min. = 2 Max. = 2	Min. = 2 Max. = 4	Min. = 2 Max. = 4	Min. = 2 Max. = 2	Min. = 2 Max. = 4
# CEC IOA chassis (11-slot)	Min. = 0 Max. = 1	Min. = 0 Max. = 1	Min. = 0 Max. = 1	Min. = 0 Max. = 1	Min. = 0 Max. = 1
# Expansion IOA chassis (16-slot)	Min. = 0 Max. = 0	Min. = 0 Max. = 2	Min. = 0 Max. = 2	Min. = 0 Max. = 0	Min. = 0 Max. = 2
# D700 disk/tape enclosures	Min. = 2 Max. = 2	Min. = 2 Max. = 16	Min. = 2 Max. = 16	Min. = 2 Max. = 2	Min. = 2 Max. = 16
# Disk drives (VOS systems)	Min. = 2 Max. = 10	Min. = 2 Max. = 96	Min. = 2 Max. = 96	Min. = 2 Max. = 10	Min. = 2 Max. = 96
# Disk drives (FTX systems)	NA	Min. = 2 Max. = 84	Min. = 2 Max. = 84	NA	Min. = 2 Max. = 84
# Tape drives	Min. = 1 Max. = 4	Min. = 1 Max. = 4	Min. = 1 Max. = 4	Min. = 1 Max. = 4	Min. = 1 Max. = 4
# Expansion cabinets	Min. = 0 Max. = 0	Min. = 0 Max. = 3	Min. = 0 Max. = 3	Min. = 0 Max. = 0	Min. = 0 Max. = 3

* Available on G755-G758 (sub model 20) boards only. Requires min. FTX 3.2 (with patch) or VOS 13.3.3. Marketing ID is M512-1.

** OS releases supported on Model 615: VOS 13.3.3, 14.0, 14.0.1 / FTX 3.2, 3.3.

*** OS releases supported on Model 615S: VOS 13.3.3, 14.0, 14.0.1

4.2 Series 600 Recommended Slot Assignments

Slot No.	Model 610S	Model 610	Model 620	Model 625
0	CPU-Memory	CPU-Memory	CPU-Memory	CPU-Memory
1	CPU-Memory	CPU-Memory	CPU-Memory	CPU-Memory
2	SCSI-ENET	SCSI-ENET	SCSI-ENET	SCSI-ENET
3	SCSI-ENET	SCSI-ENET	SCSI-ENET	SCSI-ENET
4	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO

4.3 Series 1200 Configurations

Component	Model 1210	Model 1215	Model 1220	Model 1225	Model 1245*
CPU-Memory board	G731-G734	G741-G744, G751-G754	G735-G738	G745-G748, G755-G758	G745-G748, G755-G757
# CPU-Memory boards	2	2	2	2	4
# Logical CPUs	1	1	2	2	4
Duplexed memory (M702 128-MB memory modules)	Min. = 128 MB Max. = 512 MB	Min. = 128 MB Max. = 512 MB	Min. = 128 MB Max. = 512 MB	Min. = 128 MB Max. = 512 MB	Min. = 256 MB Max. = 512 MB
Duplexed memory (M713 512-MB memory modules)**	NA	Min. = 512 MB Max. = 2 GB	NA	Min. = 512 MB Max. = 2 GB	Min. = 512 MB (Available on VOS systems only) Max. = 3 GB (Available on VOS systems only)
# IO processors	Min. = 0 Max. = 6	Min. = 0 Max. = 6	Min. = 0 Max. = 6	Min. = 0 Max. = 6	Min. = 0 Max. = 6
# SCSI-ENET controllers	Min. = 2 Max. = 8	Min. = 2 Max. = 8	Min. = 2 Max. = 8	Min. = 2 Max. = 8	Min. = 2 Max. = 8
# IOA chassis	Min. = 0 Max. = 6	Min. = 0 Max. = 6	Min. = 0 Max. = 6	Min. = 0 Max. = 6	Min. = 0 Max. = 6
# D700 disk/tape enclosures	Min. = 2 Max. = 32	Min. = 2 Max. = 32	Min. = 2 Max. = 32	Min. = 2 Max. = 32	Min. = 2 Max. = 32
# Disk drives (VOS systems)	Min. = 2 Max. = 190	Min. = 2 Max. = 190	Min. = 2 Max. = 190	Min. = 2 Max. = 190	Min. = 2 Max. = 190
# Disk drives (FTX systems)	Min. = 2 Max. = 190	Min. = 2 Max. = 190	Min. = 2 Max. = 190	Min. = 2 Max. = 190	Min. = 2 Max. = 190
	Min. = 1	Min. = 1	Min. = 1	Min. = 1	Min. = 1

# Tape drives	Max. = 4	Max. = 4	Max. = 4	Max. = 4	Max. = 4
# Expansion cabinets	Min. = 1	Min. = 1	Min. = 1	Min. = 1	Min. =
	Max. = 6	Max. = 6	Max. = 6	Max. = 6	Max. = 6

* Minimum OS release: VOS 13.2.1 / FTX 3.2.

** Available on G751-G758 (sub model 20) boards only. Requires min. FTX 3.2 (with patch) or VOS 13.3.3. Marketing ID is M512-1.

4.4 Series 1200 Recommended Slot Assignments

Slot No.	1210	1215	1220	1225	1245
0	CPU-Memory	CPU-Memory	CPU-Memory	CPU-Memory	CPU-Memory
1	CPU-Memory	CPU-Memory	CPU-Memory	CPU-Memory	CPU-Memory
2	-----	-----	-----	-----	CPU-Memory
3	-----	-----	-----	-----	CPU-Memory
4	SCSI-ENET	SCSI-ENET	SCSI-ENET	SCSI-ENET	SCSI-ENET
5	SCSI-ENET	SCSI-ENET	SCSI-ENET	SCSI-ENET	SCSI-ENET
6	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO
7	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO
8	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO
9	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO
10	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO
11	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO	SCSI-ENET/IO

5. Specifications

5.1 Physical

Height	180.3 cm (71 inches)
Width	76.2 cm (30 inches)
Depth	99 cm (39 inches)
Weight	544.3 kg (1200 lbs) max.

5.2 Environmental

Operating temperature (AC and DC systems)	
-200 to 6000 ft	4.5° to 40° C (40° to 104° F)
6000 to 8000 ft	4.5° to 35° C (40° to 95° F)
8000 to 10,000 ft	4.5° to 30° C (40° to 86° F)
Short term (<72 hrs) operating temp. (DC systems only)	
-200 to 6000 ft	1.7° to 49° C (35° to 120° F)
6000 to 8000 ft	1.7° to 45° C (35° to 113° F)
8000 to 10,000 ft	1.7° to 35° C (35° to 95° F)
Heat dissipation (maximum)	
CEC cab. (AC systems)	15,131 Btu/hr
Expansion cab. (AC systems)	15,131 Btu/hr
CEC cab. (DC systems)	12,283 Btu/hr
Expansion cab. (DC systems)	12,283 Btu/hr
Relative humidity	10% to 80% non-condensing
Max. rate of temp. change	12°/hr C (21.6°/hr F)
Acoustical noise (per cabinet)	
Fans at normal speed	67 dBA
Fans at full speed	77 dBA

5.3 Electrical (AC Cabinets)

AC service requirements	Two 30A, single-phase AC inputs (1 active, 1 standby)
AC input voltage range	
Nominal	200 to 240 V AC
Absolute	180 to 264 V AC
AC input frequency range	47 to 63 Hz
Efficiency (min.)	82%
Power factor	>.99 (>10% load)
AC input power (max.)	4.44 KVA
Input current (@ 3600 W of power delivered to load)	

Minimum	16.8 A @ 264 V AC
Nominal	22.2 A @ 200 V AC
	18.5 A @ 240 V AC
Maximum	24.7 A @ 180 V AC
DC output voltage range	-40.0 to -59.9 V DC
Nominal	-54.5 V DC
DC output power (max.)	3600 W
AC line cord (dual; 1 active, 1 standby)	
Standard length	4.6 m (15 ft)
Optional length	7.6 m (25 ft)
Termination (domestic)	NEMA 30A, 250V twistlock connector
Termination (intl.)	IEC 309, 32A, 250V pin and sleeve connector

5.4 Electrical (DC Cabinets)

DC service requirements	Two 100A DC inputs
DC input voltage range	-42.0 to -59.9 V DC
Nominal	-54.5 V DC
DC input power (max.)	3650 W
Input current (@ 3600 W of power delivered to load)	
Minimum	61.0 A @ -59.9 V DC
Nominal	67.0 A @ -54.5 V DC
Maximum	87.0 A @ -40.0 V DC
DC output power (max.)	3600 W
DC line cord (dual; load sharing)	
Standard length	7.6 m (25 ft)
Optional length	15.2 m (50 ft)
Termination	Double-holed ring lug connector

6. Upgrade Kits

6.1 CPU-Memory Board Upgrade Kits

The following table lists the marketing IDs of the CPU-Memory board upgrade kits.

Marketing ID	Description
UPC2093	Upgrade a Model 1215 (1 GB) to a Model 1225 (1 GB).
UPC2094	Upgrade a Model 1215 (1.5 GB) to a Model 1225 (1.5 GB).
UPC2095	Upgrade a Model 1215 (2 GB) to a Model 1225 (2 GB).
UPC2097	Upgrade a Model 1225 (1 GB) to a Model 1245 (2 GB).
UPC2097-3	Upgrade a Model 1225 (1 GB) to a Model 1245 (3 GB).
UPC2098	Upgrade a Model 1225 (1.5 GB) to a Model 1245 (3 GB).
UPC2098-2	Upgrade a Model 1225 (1.5 GB) to a Model 1245 (2 GB).
UPC2099	Upgrade a Model 1225 (2 GB) to a Model 1245 (3 GB).
UPC2200	Upgrade a Model 610 (128 MB) to a Model 615 (128 MB).
UPC2201	Upgrade a Model 610 (128 MB) to a Model 615 (256 MB).
UPC2202	Upgrade a Model 610 (128 MB) to a Model 615 (384 MB).
UPC2203	Upgrade a Model 610 (128 MB) to a Model 615 (512 MB).
UPC2203-2	Upgrade a Model 610 (128 MB) to a Model 615 (1 GB).
UPC2204	Upgrade a Model 610 (256 MB) to a Model 615 (256 MB).
UPC2205	Upgrade a Model 610 (256 MB) to a Model 615 (384 MB).
UPC2206	Upgrade a Model 610 (256 MB) to a Model 615 (512 MB).
UPC2206-2	Upgrade a Model 610 (256 MB) to a Model 615 (1 GB).
UPC2207	Upgrade a Model 610 (384 MB) to a Model 615 (384 MB).
UPC2208	Upgrade a Model 610 (384 MB) to a Model 615 (512 MB).
UPC2208-2	Upgrade a Model 610 (384 MB) to a Model 615 (1 GB).
UPC2209	Upgrade a Model 610 (512 MB) to a Model 615 (512 MB).
UPC2209-2	Upgrade a Model 610 (512 MB) to a Model 615 (1 GB).
UPC2013-2	Upgrade a Model 610 (128 MB) to a Model 625 (1 GB).
UPC2016-2	Upgrade a Model 610 (256 MB) to a Model 625 (1 GB).
UPC2018-2	Upgrade a Model 610 (384 MB) to a Model 625 (1 GB).
UPC2019-2	Upgrade a Model 610 (512 MB) to a Model 625 (1 GB).
UPC2210	Upgrade a Model 615 (128 MB) to a Model 625 (128 MB).
UPC2211	Upgrade a Model 615 (128 MB) to a Model 625 (256 MB).
UPC2212	Upgrade a Model 615 (128 MB) to a Model 625 (384 MB).
UPC2213	Upgrade a Model 615 (128 MB) to a Model 625 (512 MB).
UPC2213-2	Upgrade a Model 615 (128 MB) to a Model 625 (1 GB).
UPC2214	Upgrade a Model 615 (256 MB) to a Model 625 (256 MB).
UPC2215	Upgrade a Model 615 (256 MB) to a Model 625 (384 MB).
UPC2216	Upgrade a Model 615 (256 MB) to a Model 625 (512 MB).
UPC2216-2	Upgrade a Model 615 (256 MB) to a Model 625 (1 GB).

UPC2217	Upgrade a Model 615 (384 MB) to a Model 625 (384 MB).
UPC2218	Upgrade a Model 615 (384 MB) to a Model 625 (512 MB).
UPC2218-2	Upgrade a Model 615 (384 MB) to a Model 625 (1 GB).
UPC2219	Upgrade a Model 615 (512 MB) to a Model 625 (512 MB).
UPC2219-2	Upgrade a Model 615 (512 MB) to a Model 625 (1 GB).
UPC2220	Upgrade a Model 615 (1 GB) to a Model 625 (1 GB).
UPC2221	Upgrade a Model 615 (1.5 GB) to a Model 625 (1.5 GB).
UPC2222	Upgrade a Model 615 (2 GB) to a Model 625 (2 GB).
UPC2023-2	Upgrade a Model 620 (128 MB) to a Model 625 (1 GB).
UPC2026-2	Upgrade a Model 620 (256 MB) to a Model 625 (1 GB).
UPC2028-2	Upgrade a Model 620 (384 MB) to a Model 625 (1 GB).
UPC2029-2	Upgrade a Model 620 (512 MB) to a Model 625 (1 GB).
UPC2033-2	Upgrade a Model 1210 (128 MB) to a Model 1215 (1 GB).
UPC2036-2	Upgrade a Model 1210 (256 MB) to a Model 1215 (1 GB).
UPC2038-2	Upgrade a Model 1210 (384 MB) to a Model 1215 (1 GB).
UPC2039-2	Upgrade a Model 1210 (512 MB) to a Model 1215 (1 GB).
UPC2063-2	Upgrade a Model 1215 (128 MB) to a Model 1225 (1 GB).
UPC2066-2	Upgrade a Model 1215 (256 MB) to a Model 1225 (1 GB).
UPC2068-2	Upgrade a Model 1215 (384 MB) to a Model 1225 (1 GB).
UPC2069-2	Upgrade a Model 1215 (512 MB) to a Model 1225 (1 GB).
UPC2073-2	Upgrade a Model 1220 (128 MB) to a Model 1225 (1 GB).
UPC2076-2	Upgrade a Model 1220 (256 MB) to a Model 1225 (1 GB).
UPC2078-2	Upgrade a Model 1220 (384 MB) to a Model 1225 (1 GB).
UPC2079-2	Upgrade a Model 1220 (512 MB) to a Model 1225 (1 GB).
UPC2087-2	Upgrade a Model 1225 (128 MB) to a Model 1225 (2 GB).
UPC2088-2	Upgrade a Model 1225 (256 MB) to a Model 1225 (2 GB).
UPC2089-2	Upgrade a Model 1225 (384 MB) to a Model 1225 (2 GB).
UPC2090-2	Upgrade a Model 1225 (512 MB) to a Model 1225 (2 GB).

6.2 Memory Upgrade Kits

The following table lists the marketing IDs of the memory upgrade kits.

Marketing ID	Description
UPM512-1	M713 memory module (512-MB).
UPM7523	Model 1215 upgrade (1 GB to 1.5 GB). Add one M713 memory module to two existing M713 memory modules.

UPM7524	Model 1215 upgrade (1 GB to 2 GB). Add two M713 memory modules to two existing M713 memory modules.
UPM7534	Model 1215 upgrade (1.5 GB to 2 GB). Add one M713 memory module to three existing M713 memory modules.
UPM7567	Model 625/1225/1245 upgrade (1 GB to 1.5 GB). Add one M713 memory module to two existing M713 memory modules.
UPM7568	Model 625/1225 upgrade (1 GB to 2 GB). Add two M713 memory modules to two existing M713 memory modules.
UPM7578	Model 625/1225 upgrade (1.5 GB to 2 GB). Add one M713 memory module to three existing M713 memory modules.
UPM7412-1	Model 1215 upgrade. Replace one existing M702 memory module (128 MB) with two M713 memory modules (1 GB).
UPM7422	Model 1215 upgrade. Replace two existing M702 memory modules (256 MB) with two M713 memory modules (1 GB).
UPM7432	Model 1215 upgrade. Replace three existing M702 memory modules (384 MB) with two M713 memory modules (1 GB).
UPM7422	Model 1215 upgrade. Replace four existing M702 memory modules (512 MB) with two M713 memory modules (1 GB).
UPM7456-1	Model 625/1225/1245 upgrade. Replace one existing M702 memory module (128 MB) with two M713 memory modules (1 GB).
UPM7466	Model 625/1225/1245 upgrade. Replace two existing M702 memory modules (256 MB) with two M713 memory modules (1 GB).
UPM7576	Model 625/1225/1245 upgrade. Replace three existing M702 memory modules (384 MB) with two M713 memory modules (1 GB).
UPM7486	Model 625/1225/1245 upgrade. Replace four existing M702 memory modules (512 MB) with two M713 memory modules (1 GB).

7. Related Documentation

The following table lists related documentation written by Customer Service Documentation that is available worldwide to Stratus employees via the [Customer Service Documentation home page](#) on the Stratus internal web page. The manuals with order numbers are in PostScript format or can be ordered from the copy center. The other manual is in HTML format on the web.

Document	Order Number
Continuum 600/1200 Series Maintenance Guide	HM058
Continuum 600/1200 Series Installation Guide	HI058
Unpacking Instructions for Continuum 600/1200 Series Cabinets	HU058
K470 Supplement to Continuum 600/1200 Series Maintenance Guide	

8. Part Numbers

The following tables list FRUs and CRUs contained in Continuum 600/1200 Series systems.

8.1 CEC Boards/Subassemblies

Description	FRU/CRU	Part Number
Uni 72 MHz, 128 MB (uses 128-MB memory module) Sub model 00 Sub model 20	CRU	AA-G73100 AA-G73120
Uni 72 MHz, 256 MB (uses 128-MB memory modules) Sub model 00 Sub model 20	CRU	AA-G73200 AA-G73220
Uni 72 MHz, 384 MB (uses 128-MB memory modules) Sub model 00 Sub model 20	CRU	AA-G73300 AA-G73320
Uni 72 MHz, 512 MB (uses 128-MB memory modules) Sub model 00 Sub model 20	CRU	AA-G73400 AA-G73420
Twin 72 MHz, 128 MB (uses 128-MB memory module) Sub model 00 Sub model 20	CRU	AA-G73500 AA-G73520
Twin 72 MHz, 256 MB (uses 128-MB memory modules) Sub model 00 Sub model 20	CRU	AA-G73600 AA-G73620
Twin 72 MHz, 384 MB (uses 128-MB memory modules) Sub model 00 Sub model 20	CRU	AA-G73700 AA-G73720
Twin 72 MHz, 512 MB (uses 128-MB memory modules) Sub model 00 Sub model 20	CRU	AA-G73800 AA-G73820
Twin 96 MHz, 128 MB (uses 128-MB memory module) Sub model 00 Sub model 20	CRU	AA-G74500 AA-G74520
Twin 96 MHz, 256 MB (uses 128-MB memory modules) Sub model 00 Sub model 20	CRU	AA-G74600 AA-G74620
Twin 96 MHz, 384 MB (uses 128-MB memory modules) Sub model 00 Sub model 20	CRU	AA-G74700 AA-G74720
Twin 96 MHz, 512 MB (uses 128-MB memory modules) Sub model 00 Sub model 20	CRU	AA-G74800 AA-G74820
Uni 96 MHz, 512 MB (uses 512-MB memory module)	CRU	AA-G75120
Uni 96 MHz, 1 GB (uses 512-MB memory modules)	CRU	AA-G75220
Uni 96 MHz, 1.5 GB (uses 512-MB memory modules)	CRU	AA-G75320
Uni 96 MHz, 2 GB (uses 512-MB memory modules)	CRU	AA-G75420
Twin 96 MHz, 512 MB (uses 512-MB memory module)	CRU	AA-G75520

Twin 96 MHz, 1 GB (uses 512-MB memory modules)	CRU	AA-G75620
Twin 96 MHz, 1.5 GB (uses 512-MB memory modules)	CRU	AA-G75720
Twin 96 MHz, 2 GB (uses 512-MB memory modules)	CRU	AA-G75820
SCSI-ENET controller	CRU	AA-K45000
SCSI-ENET score card	FRU	AA-K45100
IO controller	CRU	AA-K60000
IO score card	FRU	AA-K60100
M702 memory module (128-MB)	FRU	AA-M70200
M713 memory module (512-MB)	FRU	AA-M71300
CEC cardcage filler panel	CRU	MA-000305
6-slot NFT clock card	FRU	AA-E58200
Console controller	CRU	AA-E59300
Backplane power supply	CRU	AA-P20000
RS-232 async. full modem cable	CRU	AW-B10102-25
RS-232 async. null modem cable	CRU	AW-B15200-25
Cable gender adapter (25 pin M/M)	CRU	JD-25PLG-07
CDC: ADU/ARU cable 9F	FRU	AW-000865
CDC: pwr. control A cable (50-pin)	FRU	AW-000783-08
CDC: pwr. control B cable (37-pin)	FRU	AW-000785-08
CDC: RS-485 cable 78M	FRU	AW-000857-07
CDC: RS-485 cable 78F	FRU	AW-000858-08
CDC: IOA chassis cable 25F	FRU	AW-000862-06
ENET cable - K450 SCSI-ENET controller	CRU	AW-000809-10/35/75
ENET cable - K460 SCSI-ENET controller	CRU	AW-000911-10/20/35
SCSI daisy chain cable	FRU	AW-000789-02
IO controller cable	FRU	AW-000794-05/18

8.2 Cabinets

Description	FRU/CRU	Part Number
CEC backplane	FRU	AA-E64100
IO backplane	FRU	AA-E75000
Power controller backplane	FRU	AA-E59600
Air mover assembly	CRU	AA-E60084
Air mover backplane	FRU	AA-E59500

Air filter (DC cabinet)	CRU	MA-000252
CDC/fan control board	FRU	AA-E59000
Alarm display panel	FRU	AA-E59900
Terminator maintenance bus	FRU	AA-E76000
1U (1.75") air distribution panel	FRU	MA-000253
3U (5.25") air distribution panel	FRU	MA-000254

8.3 Peripherals

Description	FRU/CRU	Part Number
Disk/tape (SCSI) backplane	FRU	AA-E57100
SCSI terminator (disk/tape enclosure)	FRU	AA-E57600
Disk/tape power supply	CRU	AA-E60083
Disk/tape chassis (primary)	FRU	AA-E60086
Disk/tape chassis (secondary)	FRU	AA-E60104
D701 disk drive (1 GB, 5400 rpm, 3 1/2")	CRU	AA-D70100
D702 disk drive (2 GB, 5400 rpm, 3 1/2")	CRU	AA-D70200
D703 disk drive (1 GB, 7200 rpm, 3 1/2")	CRU	AA-D70300
D704 disk drive (2 GB, 7200 rpm, 3 1/2")	CRU	AA-D70400
D705 disk drive (4 GB, 7200 rpm, 3 1/2")	CRU	AA-D70500
4-mm DAT II tape drive	CRU	AA-T70100
DAT tape drive with autoloader	CRU	AA-T70200
525 MB cartridge tape drive	CRU	AA-T70300
6250 BPI 1/2" SCSI tape drive	FRU	AA-T20400
6250 BPI tape drive (table top)	FRU	AA-T20410
T204 terminator	FRU	AX-T20001
SCSI cable (SCSI-ENET controller to primary disk/tape enclosure)	FRU	AW-000792-04/10/35
SCSI cable (primary disk/tape enclosure to secondary enclosure)	FRU	AW-000793-05/10/35/60
SCSI cable (primary disk/tape enclosure to T403 tape drive) - 10'	FRU	AA-E51801
SCSI cable (primary disk/tape enclosure to T403 tape drive) - 20'	FRU	AA-E51802
SCSI cable (primary disk/tape enclosure to T403 tape drive) - 30'	FRU	AA-E51803

SCSI cable (primary disk/tape enclosure to T204 tape drive) - 10'	FRU	AA-E51901
SCSI cable (primary disk/tape enclosure to T204 tape drive) - 20'	FRU	AA-E51902
SCSI cable (primary disk/tape enclosure to T204 tape drive) - 30'	FRU	AA-E51903
Disk/tape filler panel	CRU	AA-E60107
C419 modem*	CRU	AA-C41900
Channel interface unit (CIU)		AA-U20100
Cable (CIU to K113-01) (20')		AW-000844-20
Remote I/O (RIO)		AA-U25000
RIO simplex cable kit		AK-000305
RIO duplex cable kit		AK-000307
Band printer (600 lpm, 110 volt)	FRU	AA-L30610
Band printer (600 lpm, 220 volt)	FRU	AA-L30620

* Replaced C319 modem (7/25/95).

8.4 Power Subsystems

Description	FRU/CRU	Part Number
Power supply unit (PSU)	CRU	AA-P20600
Battery fuse unit	CRU	AA-P21000
Battery string	CRU	AA-P22300
Fiber optic cable (10'')	CRU	AA-P22700
Fiber optic cable (197'')	CRU	AA-P25100
AC power cable (domestic)	CRU	AW-000759-25
AC power cable (international)	CRU	AW-000798
AC power controller (30A)	CRU	AA-P21400
Battery drawer slide pair	FRU	AA-P24300
Power control unit (PCU)	CRU	AA-P20400
DC power controller (250A)	CRU	AA-E60108
Air filter (front)	CRU	AA-P22400
Air filter (rear)	CRU	AA-P22500
C/DC power system (3600W)	FRU	AA-E60097
DC power input cable (A)	FRU	AW-000405-15 AW-000405-25
		AW-000405-15

DC power input cable (B)	FRU	AW-000422-13 AW-000422-25
ACPC filler panel	FRU	AA-P25000

8.5 IOA Subsystem

Description	FRU/CRU	Part Number
Multicom line adapter	CRU	AA-K10120
Unvrsl. line adapter - RS232/422	CRU	AA-K10210
Ethernet line adapter	CRU	AA-K10410
Terminator	CRU	AA-K10810
Unvrsl. line adapter - RS232/423	CRU	AA-K10900
IBM printer line adapter	CRU	AA-K11000
Unvrsl. line adapter - RS232/V.35	CRU	AA-K11200
Channel attach line adapter	CRU	AA-K11300
X.21 line adapter	CRU	AA-K11400
Token ring line adapter	CRU	AA-K11500
16-port async line adapter	CRU	AA-K11800
DataKit line adapter	CRU	AA-K12000
T1/ISDN primary rate adapter	CRU	AA-K12400
ISDN basic rate adapter	CRU	AA-K12500
NEC printer adapter	CRU	AA-K12700
Differential SCSI adapter	CRU	AA-K13200
NEC Chameleon adapter	CRU	AA-U30000
IOA logic backplane (16-slot)	FRU	AA-E57800
IOA power backplane	FRU	AA-E58600
K601 IOA chassis (11 slots)	FRU	AA-E60098
K602 IOA chassis (16 slots)	FRU	AA-E60087
K603 IOA chassis - Front (16 slots)	FRU	A-E63300
K604 IOA chassis - Rear (16 slots)	FRU	AA-E63400
IOA chassis power supply	CRU	AA-P20300

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