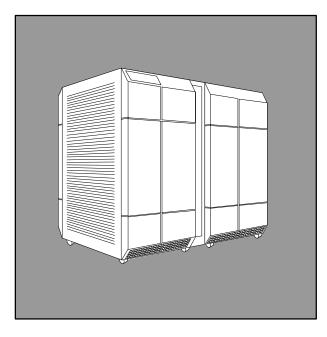
XA/R-S Systems Service Announcement



The Stratus XA/R–S systems are seven new FTX-based entry-level (8-slot) and mid-range (12-slot) open systems servers. They are configured to support mission-critical applications or to function as open distributed communications gateways connecting wide area networks (WANs).

XA/R–S systems provide support for two additional slots in the logic chassis on both the entry-level and mid–range systems. This means that all 8 slots in the entry-level models and all 12 slots in the midrange models can be configured.

The seven XA/R-S systems replace five of the existing XA/R models configured with FTX and extend the series by two new models.

The new XA/R-S systems provide up to twice the memory and disk capacity as previous XA/R systems. They also support more I/O devices.

Operating System Requirements

XA/R–S systems require a minimum operating system release of FTX 2.2.1.

Hardware Components

Main Chassis Boards

Model	Туре	Description	Min. Re ID Prom	vision Micro- code	Model	Туре	Description	Min. Re ID Prom	vision Micro- code
G860-10	H 10	CPU	25	25	M604**	F	Mem. (128 MB)	24	
G861-20	J1 20	CPU	44	39	M604-10**	F 10	Mem. (128 MB)	27	
G862-20	J2 20	CPU	44	39	M611	G	Mem. (64 MB)	09	
M601*	Е	Mem. (32 MB)	23		M612	G	Mem. (128 MB)	09	
M601-10*	E 10	Mem. (32 MB)	27		M613	G	Mem. (256 MB)	09	
M602*	Е	Mem. (128 MB)	23		M614	Н	Mem. (64 MB)	09	
M602-10*	E 10	Mem. (128 MB)	27		M615	Н	Mem. (128 MB)	09	
M603	F	Mem. (32 MB)	24		M616	Н	Mem. (256 MB)	12	
M603-10	F 10	Mem. (32 MB)	27		K200-10	B 10	IOP	41	45

^{*} Supported on upgrades of mid-range systems.



^{**} Supported on upgrades of entry-level systems.

IOA Chassis Boards

Model Type		Chassis Label	Description	Min. R	Min. Revision	
			•	ID Prom	Micro- code	
K101	1	COMM ADAPTER	Async/sync full modem adapter	10	16	
K102	2	COMM ADAPTER	RS-232/422 adapter	12	18	
K102-10	2A	COMM ADAPTER	RS-232/422 adapter (low-power)	06	20	
K103	3	COMM ADAPTER	Clock/RS-232 adapter	08	16	
K104	1	ETHERNET ADAPTER	Ethernet adapter	09	18	
K104-10	1A	ETHERNET ADAPTER	Ethernet adapter (low-power)	00	18	
K107	1	TAPE ADAPTER	T103/T203 tape drive adapter	01	08	
K108-10	2	TERMINATOR	Terminator	00		
K109	4	COMM ADAPTER	RS-232/423 adapter	22	18	
K110	1	PRINTER ADAPTER	IBM printer L322 adapter	07	03	
K111	5	COMM ADAPTER	Async null modem adapter	10	16	
K112	6	COMM ADAPTER	RS-232/V.35 adapter	00	18	
K114	8	COMM ADAPTER	X.21 comm adapter	0	12	
K116	2	SCSI ADAPTER	T502 SCSI tape adapter	03	06	
K118	9	COMM ADAPTER	16-port async adapter	18	05	
K121-10	3A	SCSI ADAPTER	D60X SCSI II disk adapter	01	23	

Disk and Tape Drives

Model	Туре	Description	Model	Туре	Description
D603	K	665 MB disk drive	T502	G	150 MB 1/4" cartridge tape drive (includes bracket)
D604	L	1.46 GB disk drive	T502-02	G	150 MB 1/4" cartridge tape drive (mounted in logic cabinet)
T203-002	F	1600/6250 bpi 1/2" tape drive (cabinet mounted)	T601-001	J	4-mm DAT tape drive for D600 peripheral subsystem
T203-003	F	1600/6250 bpi 1/2" tape drive (table mounted)			

Specifications

Physical		Electrical	
Height	137.2 cm (54 in)	Input voltage	200-208/220-240 V ac
Width	60 cm (23.5 in)	Operating frequency	50/60 Hz
Depth	106.7 cm (42 in)	Maximum current per line cor	d
Weight (max.)	499 kg (1100 lbs)	8-slot logic cabinet	12 A
Environmental		12-slot logic cabinet	15 A
Temperature		Maximum current per logic ca	binet
operating	10 to 40°C (50 to 104°F)	8-slot logic cabinet	22 A
non-operating	–40 to 60°C (–40 to 140°F)	12-slot logic cabinet	28 A
Relative humidity		IOP expansion cabinet	21 A
operating	20% to 80% non-condensing	Power (cabinet maximum)	
non-operating	5% to 95% non-condensing	8-slot logic cabinet	3961 Watts (3.96 KVA)
Altitude	3050 m (10,000 ft) maximum	12-slot logic cabinet	4961 Watts (4.96 KVA)
Max. heat dissipation		IOP expansion cabinet	3692 Watts (3.69 KVA)
8-slot logic cabinet	10,812 Btu/hr	Power Cable	
12-slot logic cabinet	13,541 Btu/hr	Length	4.5 m (15 ft)
IOP expansion cabinet	8,189 Btu/hr	Input conductors	3-wire

8-Slot System Configurations

Model	XA/R5-S	XA/R10-S	XA/R15-S
Slots	8	8	8
CPU board	G860-10	G861-20	G862-20
# CPU boards	2	2	2
# Logical CPUs	1	1	2
Memory boards*	M603/M603-10 (32 MB) M614 (64 MB) M615 (128 MB) M616 (256 MB)	M614 (64 MB) M615 (128 MB) M616 (256 MB)	M614 (64 MB) M615 (128 MB) M616 (256 MB)
Duplexed memory	Min. = 32 MB Max. = 256 MB	Min. = 64 MB Max. = 256 MB	Min. = 64 MB Max. = 256 MB
IOP board	K200-10	K200-10	K200-10
# IOA chassis	Min. = 1 Max. = 2	Min. = 1 Max. = 2	Min. = 1 Max. = 2
Disk drives	D603 (665 MB) D604 (1.46 GB)	D603 (665 MB) D604 (1.46 GB)	D603 (665 MB) D604 (1.46 GB)
Max. # disk drives	36	36	36
Max. # tape drives	2	2	2
Duplexed disk storage	Min. = 665 MB Max. = 26.28 GB	Min. = 665 MB Max. = 26.28 GB	Min. = 665 MB Max. = 26.28 GB
# Expansion cabinets	Min. = 0 Max. = 2	Min. = 0 Max. = 2	Min. = 0 Max. = 2

^{*} On upgrades, the M604/M604-10 (128 MB) memory boards are also supported.

8-Slot System Slot Assignments

Slot No.	XA/R5-S	XA/R10-S	XA/R15-S
24	IOP	IOP	IOP
25	IOP	IOP	IOP
26	IOP	IOP	IOP
27	IOP	IOP	IOP
28	Memory	Memory	Memory
29	Memory	Memory	Memory
30	CPU	CPU	CPU
31	CPU	CPU	CPU

12-Slot System Configurations

Model	XA/R25-S	XA/R35-S	XA/R45-S	XA/R55-S
Slots	12	12	12	12
CPU board	G860-10	G861-20	G862-20	G862-20
# CPU boards	2	2	2	4
# Logical CPUs	1	1	2	4
Memory boards*	M611 (64 MB) M612 (128 MB) M613 (256 MB)			
Duplexed memory	Min. = 64 MB Max. = 512 MB	Min. = 64 MB Max. = 512 MB	Min. = 64 MB Max. = 512 MB	Min. = 128 MB Max. = 512 MB
IOP board	K200-10	K200-10	K200-10	K200-10
# IOA chassis	Min. = 1 Max. = 4	Min. = 1 Max. = 4	Min. = 1 Max. = 4	Min. = 1 Max. = 3
Disk drives	D603 (665 MB) D604 (1.46 GB)			
Max. # disk drives	72	72	72	54
Max. # tape drives	3	3	3	3
Duplexed disk storage	Min. = 665 MB Max. = 52.56 GB	Min. = 665 MB Max. = 52.56 GB	Min. = 665 MB Max. = 52.56 GB	Min. = 665 MB Max. = 39.42 GB
# Expansion cabinets	Min. = 0 Max. = 4	Min. = 0 Max. = 4	Min. = 0 Max. = 4	Min. = 0 Max. = 3

^{*} On upgrades, the M601/M601-10 (32 MB) and M602/M602-10 (128 MB) memory boards are also supported.

12-Slot System Slot Assignments

Slot No.	XA/R25-S	XA/R35-S	XA/R45-S	XA/R55-S
20	IOP	IOP	IOP	IOP
21	IOP	IOP	IOP	IOP
22	IOP	IOP	IOP	IOP
23	IOP	IOP	IOP	IOP
24	Memory/IOP	Memory/IOP	Memory/IOP	Memory/IOP
25	Memory/IOP	Memory/IOP	Memory/IOP	Memory/IOP
26	Memory/IOP	Memory/IOP	Memory/IOP	Memory
27	Memory/IOP	Memory/IOP	Memory/IOP	Memory
28	Memory	Memory	Memory	CPU
29	Memory	Memory	Memory	CPU
30	CPU	CPU	CPU	CPU
31	CPU	CPU	CPU	CPU

Upgrades

The XA/R5-S can be upgraded to a XA/R10-S or XA/R15-S by swapping the G860-10 CPU boards for G861-20 or G862-20 CPU boards. The XA/R10-S can be upgraded to a XA/R15-S by swapping the G861-20 CPU boards for G862-20 CPU boards.

The XA/R25-S can be upgraded to a XA/R35-S or XA/R45-S by swapping the G860-10 CPU boards for G861-20 or G862-20 CPU boards.

A XA/R35-S can be upgraded to a XA/R45-S by swapping the G861-20 CPU boards for G862-20 CPU boards. A XA/R35-S to XA/R55-S upgrade involves swapping the G861-20 CPU boards for G862-20 CPU boards, and adding an additional pair of G862-20 CPU boards and a CPU C-connector and cable.

A XA/R45-S can be upgraded to a XA/R55-S by adding an additional pair of G862-20 CPU boards and a CPU C-connector and cable.

Upgrade Kits

Part No.	Upgrade	Contents	Returns
UPC1000	XA/R5-S to XA/R10-S	Two G861-20s	Two G860-10s
UPC1010	XA/R5-S to XA/R15-S	Two G862-20s	Two G860-10s
UPC1011	XA/R10-S to XA/R15-S	Two G862-20s	Two G861-20s
UPC1020	XA/R25-S to XA/R35-S	Two G861-20s	Two G860-10s
UPC1023	XA/R25-S to XA/R45-S	Two G862-20s	Two G860-10s
UPC1030	XA/R35-S to XA/R45-S	Two G862-20s	Two G861-20s
UPC1031	XA/R35-S to XA/R55-S	Four G862-20s, One CPU C–connector kit (AK-000099-15) One 2-position CPU c-connector (AA-G20202)	Two G861-20s
UPC1040	XA/R45-S to XA/R55-S	Two G862-20s One CPU C–connector kit (AK-000099-15) One 2-position CPU c-connector (AA-G20202)	

Training Strategy

XA/R-S systems training will be incorporated into the standard hardware training courses and made available to customers as well as Stratus employees.

Maintenance Strategy

Service and support for the XA/R-S systems is consistent with current XA/R systems co-active maintenance. Installation is to be performed by Stratus-trained personnel. Warranty and maintenance is provided on a co-active basis.

Customers are expected to replace parts designated as customer replaceable units (CRUs). Stratustrained personnel will replace non-CRUs. Customers are also expected to assist Stratus-trained personnel in the diagnosis and isolation of system problems.

Logistics Strategy

Spares are stocked in Marlboro, Ma. (Elm St.) for Domestic and Canadian support. After hours and weekends, the Federal Express Parts Bank provides added U.S. coverage. Other locations may be utilized as required to satisfy specific contractual obligations or to avoid potential delays through customs. Replacement parts are shipped overnight express directly to the customer who is expected to replace Customer Replaceable Units (CRUs) in the system.

Internationally, each country stocks an initial provisioning kit locally. Spares are distributed directly to the customer in response to a call. Ireland serves as the replenishment source to replace depleted inventories.

Documentation Strategy

The following table lists related documentation.

Document Title	Order Number
G861/G862 Systems Service Bulletin	HB038
Stratus XA/R Model 5 and 25 Installation Guide	HI025
Stratus XA/R Model 5 and 25 Maintenance Guide	HM025

Part Numbers

The following table lists the FRUs and CRUs (indicated by \lnot a) associated with XA/R-S systems.

Description	Part Number	Description	Part Number
G860-10 CPU board €	AA-G86010	DC bulk power drawer	AS-E21400
G861-20 CPU board ☜	AA-G86110	Fault tolerant clock card *	AA-E15105
G862-20 CPU board €	AA-G86210	Non fault tolerant clock card	AA-E15104
M601 memory board €	AA-M60100	IOA chassis backpanel	AA-E32100
M601-10 memory board €	AA-M60110	IOA fan pack	AA-E30014
M602 memory board €	AA-M60200	2-position CPU c-connector	AA-G20202
M602-10 memory board €	AA-M60210	CPU c-connector kit containing:	AK-000099-15
M603 memory board €	AA-M60300	CPU c-connector cable	AW-000611
M603-10 memory board €	AA-M60310	2-pos. CPU c-connector	AA-G20204
M604 memory board €	AA-M60400	CPU c-connector cable	AW-000610
M604-10 memory board €	AA-M60410	8-fan module 🖘	AA-E22408
M611 memory board €	AA-M61100	Module control panel 🖘	AA-E30035
M612 memory board €	AA-M61200	Sequencing cable	AW-010084-04
M613 memory board €	AA-M61300	D603 disk drive €	AA-D60300
M614 memory board €	AA-M61400	D604 disk drive €	AA-D60400
M615 memory board €	AA-M61500	D600 disk enclosure	AA-D60000
M616 memory board €	AA-M61600	Disk drive retainer clip 🖘	MM-000098
K200-10 IOP controller €	AA-K20010	T203 tape drive	AA-T20300
Backpanel	AA-E33055	Tabletop T203 tape drive	AA-T20310
Backpanel power supply	AA-E33058	T502 tape drive €	AA-T50200
Upper power backpanel	AA-E21133	T601-001 DAT tape drive €	AA-T60101
Lower power backpanel	AA-E21113		

^{*} XA/R5-S systems only.

