

PRODUCT MAINTENANCE RELEASE BULLETIN



Product Information:

Product Line: Servers

Product Family: Express5800
Product Type: LS2400
Model Name(s): see below
Market Introduction: June 1998

PMRB Revision: 1.0

PMRB Date : **09 / 07 / 98**



Model Identification:

Machine	MI	Description
LS2400	ISG-5470-HU	PPRO 350Mhz, 512KB cache Model 0, NORAM, NOHDD
	ISG-5491-XU	PPRO 350Mhz, 512KB cache, 128MB/9GB

^{*** =} Country codes: AA = Danish, BB = British, CD = Swiss/German, CF = Swiss/French, DD = German, EE = Spanish, FF = French, JJ = Dutch, NN = Norwegian, PP = Portuguese, SS = Swedish, TT = Italian, TU = Italian /American, UU = Euro/American, YY = Belgian/Flemish

Board supports the following features:

COMMENTS

CPU	Pentium II Klammath 266 L2 cache Deshutes up to 400MHz L1/L2 cache Up to 2 with a 100 MHZ BUS 512KB cache ECC
Memory Sockets	4
Memory Sticks	DIMM 32/64/128/256
Max. Memory	1GB
Memory type, Speed, ECC	SDRAM 72 Pin, 100MHZ, Yes
Incr. Memory	1 Stick, 4 Times
Internal Bays	4
Drive Bays, 5.25"	3
Drive Bays, 3.5"	1
TOTAL DRIVE BAY	8
SCSI Integrated	Ultra-Wide SCSI x 2 ch SYMBIOS 53C876
IDE integrated	2 channels with PIIX4 up to 22 MB/s
RAID Contr.	NEC SECURAID 100/ 500 optional
Integrated NIC	On board 82558 10/100 PCI LAN
Integrated Graphics	CL-GD5480 1280x1024, 16.7M colors
ODDOM	1MB not upgradable 24xCDROM 8240B
CDROM	3 PCI
Expansion Slots	1 PCI/ISA shared 1 ISA
TOTAL Expan SLOT	
External I/F	CRT,
	Keyboard,
	Mouse
	Serial x 2 EPP Parallel x 1
	Rj45 Network
I/F for RAS Board	Yes (SMB Pro(PCI) or SMB Lite (ISA) :
	TBI)
Power Supply	260W
Redundant and Hot Swap Power	NO
Redundant and Hot swap FAN	NO
Hot Swap FAN	NO
Dimensions	ATX
(H x W x D)	21.54x43.18x45.21cm

DESCRIPTION

Server supports the following features:

DESCRIPTION FEATURE COMMENTS

CPU

Family Pentium II Klamath

Pentium II Deshutes

Internal frequency 266mhz, 2CPU :512KB cache

300-400 mhz

External frequency 100 MHz Supports 100 MHz

Total # of CPUs 2 CPU The CPU's must be the same Mhz, CACHE must be same size and

CPU stepping may be a consideration.

CACHE On CPU Chip No Option Available

Memory

Sockets 4 Gold sockets only

Capacity 1GB Supports 1GB using 256MB

Type X72 SDRAM

Data Protection ECC with error logging SDRAM

SCU & BIOS

BIOS Type Phoenix Browse our Web

Languages FLASH Update

Flash 1MB

Graphics

Controller CIRRUS Logic 5480 OS Dependent BIOS Independent

Bus PCI

Memory 2MB capacity standard 2MB

Resolutions 640x480, 800x600, 1024x768,

1280x1024

Colors 16MEG @ 640x480 & 800x600, 64K

@ 1024x768 & 256 @ 1289x1024

Output Port 15 pin analog

Disk Controllers

SCSI Ultra Wide Symbios53C876 1 channel : for Internal HDD bays

(2 channels) 1 channel : for Internal 5» bays and

CHA A ultra Wide connector

CH B Narrow

IDE 2 Channels

Floppy connector on board

1/0

Slots (Total) 6 Dedicated ISA 1

Dedicated PCI 3 One of them is shared with SCSI Shared PCI/ISA 1

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Server supports the following features (con't)

DESCRIPTION	<u>FEATURE</u>	COMMENTS
Ports & Connectors On Base Board and Riser Card	 1 x Fan headers 1 x FDD interface 2 x SCSI 68 Pin Ultra Wide High	On System IO Board
Output Ports I/O Ports	All Located On Riser Card - Contains the Following: 1 Mouse, 1 Keyboard port, 1 Serial 1 Parallel Port, 1 RJ45	
Board Dimensions		
Length / Width Real Time Clock	ATX format National PC87306	I/O Chip
Server Management Via PIAZZA & HECETA	SMB Pro or SMB Lite(not fixed) CPU and Chassis Fan Alarm Temperature Sensor Voltage Sensor Intrusion Detection SMI Shut Down Event Log SMB Interface(SMB Pro or Lite) BMC (Board management)	PIAZZA HECETA HECETA PIAZZA + HECETA HECETA + OSB2 PIAZZA PIAZZA PIAZZA HOT SWAP BACKPIANE
Logging	All critical events to on board non volatile memory	ECC Events, Voltage, Temperature, Fan & Etc.
Ease of Upgrade	Easy upgrade of 2nd, CPU, Main Memory, (end user, not technician)	

Chassis supports the following features:

DESCRIPTION FEATURE COMMENTS

Rack Mountable Fits into Std. 19" Side Rails fit both NEC Rittal 19" Rack Frame

Rack Frame (VR383551) and Compaq Rittal 19" Rack Frame

(165753-293)

3.5» Removable B One 3.5» Bays Bay 1 - 3.5" FDD

5.25» Removable | Three 5.25» Bays Supports 5.25" SCSI Devices connected to

Internal SCSI controler

HDD Bays Four SCSI SCA HDD Support 18GB/10Krpm

Device Bays

Power Supplies One 260 Watt Power

Hot - Swap NO

Cooling For CPU

HDD bays

Add In Board Slot 6 ISA, PCI

I/O PortsSwitchesRiser CardPower, Reset

Indicators Power, Fault, Activity, NIC

Activities

Labeled on chassis with international icons

Labeled on chassis with international icons

Operating System Specific Solutions

NOS specific information is key installation information for those NOS's covered in the Configuration Guide.

Utilities

- Express Builder Version 2.1 Setup and Configuration
 - ⇒ SYM53C876 DRIVERS
 - ⇒ Express5800 LS2400 UTILITIES, SSU
 - ⇒ On Line service Manual, user's Guide
 - ⇒ AMI configuration Utilities,
- ESMPro Management Suite Version 1.4

Bios

- Express5800 LS2400 Flash PHENIX BIOS (see latest version on WEB)
- User & supervisor passwords supported
- DMI 2.0 capable

MAINTENANCE PLAN:

Under limited warranty, maintenance is performed to the major module assembly level. After warranty, approved ZDS service organizations can perform maintenance as required. The Field Replaceable Units (FRU) section of this PMRB lists the major assemblies.

APPROVED SERVICE ORGANIZATION:

Commercial Sales : Approved ZDS Service Centers and Field Engineers.

Contract Sales : Refer to applicable contract.

Zenith Data Systems reserves the sole right to determine, direct, and conduct any and all factory-authorized reworks or upgrades, including the choice of service providers, based on quality and cost of provider.

DATE OF FIRST SHIPMENT:

July 1998

TRAINING:

For service training in Europe, contact the Zenith Data Systems or Bull subsidiaries in each country. A list of subsidiaries and phone numbers may be obtained by

calling ZDS in France at + (33) 1 5523 7200

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MEAN TIME TO REPAIR (MTTR)

At the major module assembly level, 30 minutes.

MEAN TIME BETWEEN FAILURES (MTBF)

20 000 h at 25°C and 40 % R.H.

PREVENTATIVE MAINTENANCE

Clock/Calendar battery replacement at seven years.

SPECIAL TOOLS OR UTILITIES REQUIRED

Full static prevention measures should be taken! Perform all work on a static mat using a wrist strap. Utilities will be available on the Information Resource Program Technical Support Bulletin Board until released on the Information Resource ZD-ROM.

Flash-BIOS (Use latest available from WEB)
Diagnostics TESTVIEW (License required)

9-pin Serial Loopback Connector 438-0073-00

LIMITED WARRANTY:

Three years on site Warranty with high end class conditions.

MANUALS:

It is recommended to keep a copy of the following manuals:

A. Service Manual Ref. : online / Express builder 2.1
B. User Manual Ref. : online / Express builder 2.1

Information:

Zenith data systems standard: +(33).(0)1.5523.7200

Web: <u>WWW.ZDS-EUROPE.COM</u>

ATTACHMENTS:

A. Detailed views

B. I/O board layout

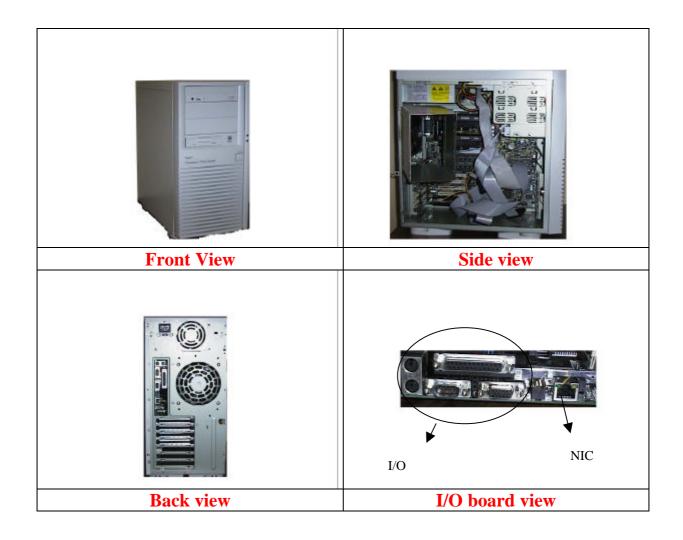
C. Exploded View

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ATTACHMENT A

DETAILED VIEW

Express5800 LS2400 Front & back Views



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System Board Connector and Component Locations

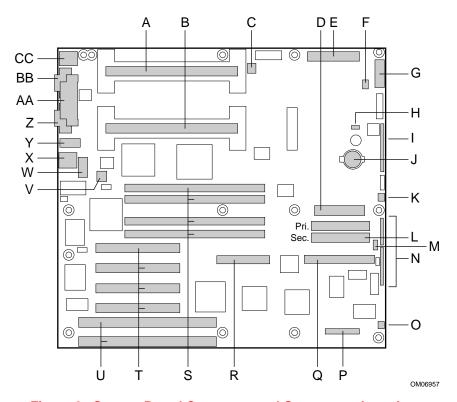


Figure 2. System Board Connector and Component Locations

- A. Secondary processor connector
- B. Primary processor connector
- C. Heatsink fan connector
- D. Diskette drive connector
- E. Main power connector
- F. Hard drive LED connector
- G. Front panel connector, 16 pin
- H. Speaker connector
- 11. Speaker connector
- I. AT front panel connector
- J. Lithium backup battery
- K. System fan connector
- L. IDE connectors, primary and secondary
- M. External I²C connector
- N. Configuration jumper blocks
- O. System fan connector

- P. Server monitor module (SMM) connector
- Q. Narrow SCSI connector
- R. Wide SCSI connector
- S. Memory sockets for four DIMM components
- T. PCI slots for add-in boards
- U. ISA slots for add-in boards
- V. Heatsink fan connector
- W. USB connector
- X. RJ-45 network controller
- Y. Serial port B (COM 2)
- Z. VGA monitor port
- AA. Parallel port
- BB. Serial A (COM 1)
- CC. Keyboard and Mouse PS/2 compatible connectors

N440BX Product Guide

EXPLODED VIEW

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Ullava	Ha	nie	rei

EXPRESS 5800 LS2400

PARTS LIST

No	Description	0	KIT MODEL	Part Number
1	MOTHERBOARD			1818970000
5	CPU 350 MHZ ECC W/512		UBP-2482-1C-xx	0820570000
7	RETENTION BRKT PII			1499770000
8	TERMINATOR BOARD			1301520000
10	HEATSINK PII → 300Mhz			1499520000
11	HEATPAD PII → 300Mhz			1499530000
12	DIMM, 32MB, 100MHz SDRAM Unbeffered		AMS-4032-xx-30	0820610000
13	DIMM, 64MB, 100MHz SDRAM Unbeffered		AMS-4064-xx-00	0820620000
14	DIMM, 128MB, 100MHz SDRAM Unbeffered		AMS-4128-xx-00	0820590000
19	HDD, 4GB, 7200RPM, LVD, ST34573LW,		ADH-7400-xx-30	3009110100
20	HDD, 9GB, 7200RPM, LVD, ST39173LW,		ADH-7900-xx-30	3009130100
22	ADAPTEC AHA-2944UW HVD	O		1301630000
32	Power Supply, (260 W) Hi-Pro			1901720000
33	CD-ROM, 24X EIDE 8240B		ADR-0240-xx-04	7303020200
34	Diskette drive, 3.5", Mist White			3200610000
38	CBL, IDE			Z221100100
39	CBL, FDD			0700170000
40	CBL, POWER CORD			6701850000
41	CBL, USB			1301550000
45	BEZEL			1499690000
46	I/O PANEL			1499700000
	POWER SWITCH			1499760000
56	FAN ASSY 3W PULSE QUABBIN			1301610000

TBD= To Be Defined

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