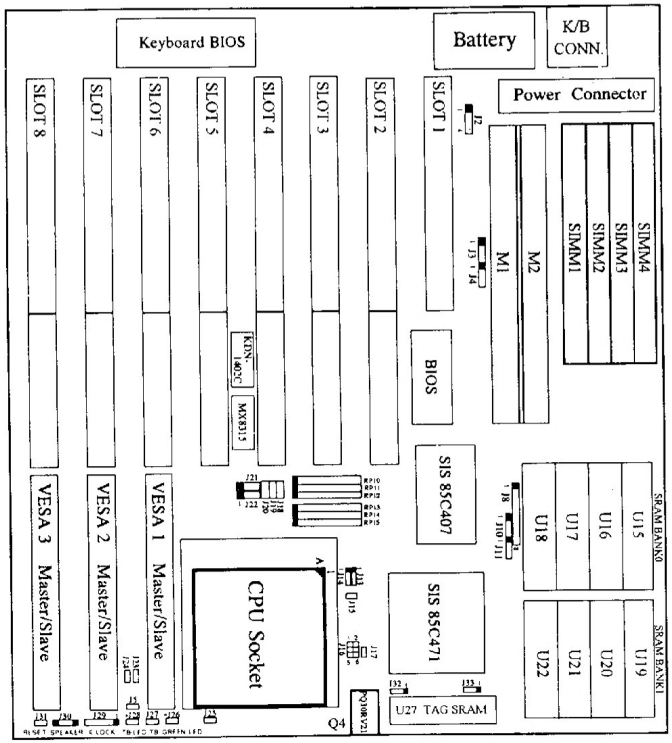
1-1 MAINBOARD LAYOUT



GXA486SG

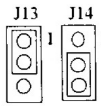
1. P23S=486SX SL-Enhanced CPU
2. P24S=P4S=486DX/DX2 SL-Enhanced CPU.
3. M6=Cyrix Cx486S/S2
4. M7=Cyrix Cx486DX/DX2
5. AMD-SL=AMD Am486DXL (A power saving CPU)
6. P24C=80486DX4
7. To distinguish Intel Non-green CPU from SL-Enhanced CPU, please check the character of the third line label printed on the CPU surface. If you can find the "SA or "SE" character on it, it means that this CPU is SL-Enhanced CPU Otherwise, it is a standard CPU.
8. If you want to use P24C(DX4) CPU, please refer to P23S or P24S CPU's jumper setting of the above CPU type select.

1-3 CPU Type Setting

RP10,11,12,13,14,15 CPU Install (Insert the "0 Ohm" Resister Pack)

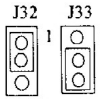
RP10	Cyrix M7
RP11	Intel /AMD/UMC (Default)
RP12	Intel P24D

RP13	Intel P24D
RP14	486DX/DX2/DX4/M7 (Default)
RP15	486SX/U5S



J13 J14 : CPU Select

J13	J14		
1-2	1-2	:	Intel P24D
2-3	1-2	:	Cyrix M7, AMD Am486DXL, UMC U5
1-2	2-3	:	486SX/DX/DX2/DX4/Intel-SL (Default)

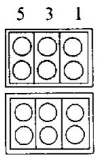


J32 J33 : AMD/UMC CPU Install

J32	J33		
1-2	2-3	:	Normal (Default)
2-3	1-2	:	AMD Am486DXL,UMC U5S

J25 : CPU Select

Open	:	P24C (80486DX4)
Short	:	AMD Am486DXL/UMC U5S



J16 : CPU Working Voltage Select

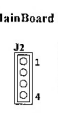
1-2,3-4,5-6 : For 5V CPU

OPEN : For 3.3V CPU

J17 : Cyrix Cx486DX2 v80 install

Open	:	Cx486DX2 v80 install
Short	:	Other

1-2 MainBoard Connector & Jumper Setting



J2 Battery Connector
2-3 : Normal
1-4 : External Battery connector
3-4 : Discharge Battery (Clear CMOS Data)

J5 Power Saving switch
Short : Force system to enter the Doze mode(Normal CPU) or Suspend mode (SL- Enhanced CPU) directly

J26 Green LED
ON : Indicate system is in Doze, Standby or Suspend mode.

J27 Turbo Switch
Short : High speed only
open : Speed change by keyboard
<Ctrl><Alt><-> : Low speed
<Ctrl><Alt><+> : High speed

J28 Turbo LED

J29 Key-Lock & Power LED Connector
1.LED (+)
2.NC
3.GND
4.Key-Lock
5.GND

J30 Speaker connector
1. Speaker output
2. NC
3. GND
4. GND

J31 RESET Switch

J23 VL-Bus Clock Setting
Open : <= 33MHz
Short : > 33MHz (Default)

J24 VL-Bus Wait State Setting
Open : 0 Wait State
Short : 1 Wait State (Default)

J21 CPU Clock Change When System Power Saving
Open : No Change (For some VL interface card that can't work in 8MHz)
Short : CPU Clock down to 8MHz

J22 CPU Clock Adjust
1-2 : Default
2-3 : Reserved (For some special VL interface card that can't work properly with this M/B)

J15 AMD CPU Select
Short : AMD Am486DX2-66/80
Open : AMD Am486DX4-75/100

Посетите нашу страничку в Интернете
http://pcvesti.null.ru
E-mail: pcvesti@null.ru

1-4 CPU Clock Select

This MainBoard (GXA486SG) supports two clock generators (optional). The MX8315 and KDN-1401/1402C.

Please refer to 1-1 MainBoard layout to check which one is being used, and adjust the CPU clock as follow

MX8315

MHz	J18	J19	J20
20	OPEN	OPEN	OPEN
25	OPEN	OPEN	SHORT
33	SHORT	SHORT	SHORT
40	OPEN	SHORT	SHORT
50	SHORT	OPEN	OPEN

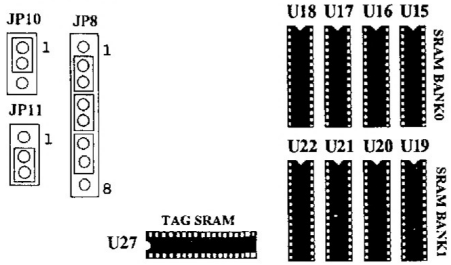
TABLE 1. CPU Clock select with MX8315

KDN-1401/2C

MHz	J18	J19	J20
20	SHORT	SHORT	OPEN
25	SHORT	OPEN	SHORT
33	OPEN	SHORT	SHORT
40	SHORT	OPEN	OPEN
50	OPEN	SHORT	OPEN

TABLE 2. CPU Clock select with KDN-1401/1402C

1-5 CACHE Configuration



JP10 JP11 : CACHE Size Select

JP10	JP11		
1-2	1-2	:	128KB
1-2	2-3	:	256KB
2-3	2-3	:	512KB

JP8 : Amount of Data SRAM

1-2,3-4,5-6,7-8	:	1 Bank
2-3,4-5,6-7	:	2 Banks

CACHE SIZE	TAG SRAM (U27)	DATA SRAM INSTALL	Jumper Setting J8	J10	J11
128KB	8Kx8 SRAM x 1	32Kx8 SRAM x4 U15,16,17,18 (Bank0)	1-2,3-4,5-6,7-8	1-2	1-2
256KB	32Kx8 SRAM x 1	32Kx8 SRAM x 8 U15,16,17,18 (Bank0) U19,20,21,22 (Bank1)	2-3,4-5,6-7	1-2	2-3
256KB	32Kx8 SRAM x 1	64Kx8 SRAM x 4 U15,16,17,18 (Bank0)	1-2,3-4,5-6,7-8	1-2	2-3
512KB	32Kx8 SRAM x 1	64Kx8 SRAM x 8 U15,16,17,18 (Bank0) U19,20,21,22 (Bank1)	2-3,4-5,6-7	2-3	2-3
512KB	32Kx8 SRAM x 1	128Kx8 SRAM x 4 U15,16,17,18 (Bank0)	1-2,3-4,5-6,7-8	2-3	2-3