



Full-size Single Board Computer for PICMG

GPI-8521-LA [SPI-8521-LA]



- Equipped with Ultra Low Voltage Intel® Celeron® M 800MHz
- Supports up to 1GB DDR SDRAM (Max)
- Analog RGB and LVDS - supports Dual View
- LCD can be connected directly to LVDS port
- Type I/II CF card slot - supports boot-up from CF card



Model	GPI-8521-LA
CPU	Intel® Celeron® M Processor 800MHz (FSB400MHz)
Cache	L1: 32KB, L2: 0KB
Processor socket	N/A
Memory(Optional)	2x 184-pin DIMM sockets, PC2700 DDR SDRAM up to 2GB
Chipset	Intel® 852GM + ICH4
BIOS	Award BIOS, PnP support
VGA	Built in Intel 855GME 1x Analog RGB interface (15-pin HD-SUB connector) 1x LVDS (18bit) interface (2x 20pin box-headers)
Keyboard / Mouse connector	1 x PS/2 keyboard / Mouse connector (Y cable included) 1 x 5pin box-header for external keyboard
Serial I/F	1x 10pin box-header - COM1: RS-232C, 1x 10pin box-header - COM2: RS-232C / 422A / 485
Parallel I/F	1x 26pin box-header
On board expansion bus	-
Wired LAN	100BASE-TX/10BASE-T, Intel® ICH4, 1x RJ-45 connector, Wake On LAN support
IDE I/F	2x EIDE connectors, Ultra DMA 33/66/100*1 2x 40pin box-headers, supports x4 devices (max)
SATA I/F	-
FDD I/F	1x 34pin box-header, 2 modes
Compact Flash Slot *1	1x bootable CF card (Type I/II) slot
SSD Socket	-
USB Port	6ch USB 2.0-compliant, 3x 10pin box-headers
RAID	-
Audio	AC97 CODEC, 1x 10-pin header connector (line-out, line-in, microphone-in)
Watchdog Timer	255 levels (1 - 255Sec.), Reset occurrence at the time of time up.
Hardware Monitor	Monitors CPU and board temperature, power supply voltage
RTC	CR2450 battery / Expected backup time with no power @ 25°C is > 7 yrs
Power Management	Power management setup via BIOS, Modem ring On /Wake on LAN, Supports PC98 / PC99 ACPI power management
Bus specification / Size	PICMG / 338mm(L) x 122mm(H)
Power consumption (Max.)	+5VDC, 5.2A +12VDC, according to External Fan +5VSB (Stand by), 0.5A
Operating temperature	0~50°C
Humidity	10~90%RH (No condensation)
Weight	880g
Notes	*1: Secondary IDE port cannot be set to Ultra DMA/66/100 when CF is used.

■ Packing List

GPI-8521-LA	
Product Guide	1
IDE 40-pin Ribbon Cable	1
IDE 80-pin Ribbon Cable	1
FDD Ribbon Cable	1
Drivers & Utilities (CD-ROM) *	1
Serial port (9-pin D-SUB male x 2) Ribbon Cable (with Bracket)	1
Parallel Port (25-pin D-SUB female x1) Ribbon Cable (with Bracket)	1
Audio Jack Cable (with Bracket)	1
6-pin mini-DIN Cable (Y Cable)	1

*User's Manual included on CD-ROM.

■ Optional Accessories

GPI-8521-LA	
Memory	
PC-MDD256-184A	DDR SDRAM DIMM(PC2700 256M)
PC-MDD512-184A	DDR SDRAM DIMM(PC2700 512M)
Cable	
USB Connector Cable	USB connector shielded cable
IDE-66 Cable	IDE Ultra ATA 100/66(80-pin Ribbon Cable)



Full-size Single Board Computer for PICMG

GPI-8452-LLA [SPI-8452-LLVA]



GPI-8451-LA [SPI-8451-LVA]



GPI-8451-LA

Model	GPI-8452-LLA	GPI-8451-LA
CPU **	Intel® Pentium® 4 Processor 1.7G-2.8GHz (FSB400/533MHz), Northwood core only. Intel® Celeron® 1.7G-2.6GHz (FSB400MHz), Northwood core only. Intel® Celeron® D Processor 2.26G-2.8GHz (FSB533MHz)	
Cache	Built in CPU	
Processor socket	Socket 478	
Memory(Optional)	2x 184-pin DIMM sockets, PC2700 DDR SDRAM up to 2GB	
Chipset	Intel® 845GV + ICH4	
BIOS	Phoenix BIOS, PnP support	
VGA	1x Analog RGB I/F (DVI-I connector) 1x LVDS(18bit) I/F (2x 20pin Box Header)	Built in Intel® 845GV, Analog RGB: 1x 15-pin HD-SUB
Keyboard / Mouse connector	1 x PS/2 keyboard / Mouse connector (Y cable included) 1 x 5pin box-header for external keyboard	
Serial I/F	1x 10pin box-header - COM1: RS-232C, 1x 10pin box-header - COM2: RS-232C / 422A / 485	
Parallel I/F	1x 26pin box-header	
On board expansion bus	-	
LAN Port	100BASE-TX/10BASE-T Intel® 82541PI, 100BASE-TX/10BASE-T Intel® ICH4, 2x RJ-45 connector, Wake On LAN support	100BASE-TX/10BASE-T Intel® ICH4, 1 x RJ-45 connector, Wake On LAN support
IDE I/F	2x EIDE connectors, Ultra DMA 33/66/100	
SATA I/F	-	
FDD I/F	1x 34pin box-header, 2 modes	
Compact Flash Slot	-	
SSD Socket	-	
USB Port	6ch USB 2.0-compliant, 3x 10pin box-headers	
Audio	AC97 compliant, 1x 10-pin header connector (line-out, line-in, microphone-in)	
Watchdog Timer	255 levels (1 - 255Sec.), Reset or External output occurs at the time of time-up	
Hardware Monitor	Monitors CPU and board temperature, power supply voltage and fan speed	
Lithium Battery Life	>10 years with no power at 25°C	
Power management	Power management setup via BIOS, Modem ring On /Wake on LAN, Supports PC98 / PC99 ACPI power management	
Bus specification / Size	PCI/ISA (PICMG-compliant) / 338mm (L) x 122mm (H) *2	
Power consumption (Max.)	[Pentium® 4 2.8GHz] +5VDC, 5.4A; +12VDC, 7.0A; 5VSB(stand-by), 0.5A	
Operating temperature	0~60°C, (may vary depending upon CPU and Heat Sink)	
Humidity	10~90%RH (No condensation)	
Weight	517g	463g
Notes	*1: Please visit our website for updated information on supported CPUs. *2: Board depth requires x2 slots (excluding the height of the CPU).	

As shown on the side of product's images, RoHS compliant is a CONTEC original marking for RoHS-compliant products.

COMMON:

- Supports Intel® Pentium® 4 Processor 1.7G-2.8GHz (FSB400/533MHz), Celeron® 1.7G-2.6GHz (FSB400MHz) and Celeron® D Processor 2.26G-2.8GHz (FSB533MHz)
- Full-size CPU Board is equipped with a variety of interfaces including EIDE, USB2.0x6, Audio, Serialx2, Parallel, PS/2
- Intel 845GV+ICH4 chip set
- Supports up to 2GB ECC SDRAM (max)
- GPI-8452-LLA
 - Analog RGB and LVDS interfaces allow supporting Dual View
 - LVDS interface allows interconnection with panel-link type LCD
 - GiGA bit LAN port uses Intel® 82541 controller

■ Optional Accessories

GPI-8452-LLA / GPI-8451-LA	
CPU (with Fan)	
PCP4-24	Pentium 4 2.4GHz (with heat sink and fan)
PCP4-28	Pentium 4 2.8GHz (with heat sink and fan)
PCP4C-20	Celeron 2.0GHz (with heat sink and fan)
Memory (PC2700 DDR SDRAM DIMM, ECC not support)	
PC-MDD256-184A	DDR SDRAM DIMM (PC2700, 256MB)
PC-MDD512-184A	DDR SDRAM DIMM (PC2700, 512MB)
Cable	
USB Connector Cable	USB connector cable (with bracket)
IDE-66 Cable	IDE Ultra ATA100/66 Ribbon cable (80-pin)