

CompactPCI 6U
Single board computer
SCP-8550-LLV



* Specifications, color and design of the products are subject to change without notice.

Features

The supported CPU is as follows:
Intel(R) Pentium(R) M 1.6G - 2.0GHz(FSB400MHz),
Celeron(R) M 1.3G - 1.5GHz(FSB400MHz)

CompactPCI compliant 6U double-slot CPU board equipped with 2 LANs and 2 display I/Fs (analog RGB, DVI-D)

Intel(R) 855GME+ICH4 chipset

Accommodates up to 2GB DDR SDRAM of main memory (ECC function support)

Equipped with CF card slot (Type I/II), bootable from CF card. One onboard frame for 2.5-inch HDD can be mounted.

Supports rear panel I/O (IDE, FDD, KEY/MOUSE, SERIAL, PARALLEL, analog RGB, USB), optional rear panel I/O board (SCP-RPIO-01)

This product, which is equipped with an 855GME chip set, is a Compact PCI bus compliant PC/AT compatible 6U double slot single board computer that supports Intel(R) Pentium(R) M Processor 1.6G - 2.0GHz (FSB400MHz) CPU, Intel(R) Celeron(R) M Processor 1.3G - 1.5GHz (FSB400MHz) CPU. It features all-in-one-design with a variety of interfaces including LAN x 2, DVI-D, EIDE, USB2.0 x 4, serial, parallel and PS/2 Keyboard/Mouse. This product is also equipped with a CF card slot (Type I/II), enabling boot-up from a CF card. One 2.5inch HDD can be attached on board. Rear Panel I/O correspondence, optional rear panel I/O board (SCP-RPIO-01) is able to convert to the standard I/F connectors through the J4, J5 connectors.

Specification

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Item	Specification
Supported CPU	Intel(R)Pentium(R) M Processor 1.6G - 2.0GHz(FSB400MHz), Intel(R)Celeron(R) M Processor 1.3G - 1.5GHz(FSB400MHz) 478 pin µFC-PGA
Cache	CPU build-in
Processor socket	Socket 478
Memory (option)	Max.2GB, 184 pin DIMM socket x 2, PC2700 DDR SDRAM, Supported ECC
Chipset	Intel(R) 855GME+ICH4
BIOS	Phoenix BIOS, PnP support
VGA	Intel 855GME built-in 15 pin HD-SUB connector x 1 and CPCI J4 connector *1*2 DVI-D connector x 1 *4
Keyboard/Mouse connector	PS/2 compatible mini-DIN x 2 and CPCI J5 connector *1*2
Serial port	9 pin D-SUB(MALE) connector (RS-232C standard) x 2, CPCI J5 connector *1*2 Two 16550 UART ports, Baud rate: 115.2K - 50bps (programmable)
Parallel port	25 pin D-SUB(FEMALE) connector x 1, CPCI J5 connector *1*2 Support SPP/EPP/ECP mode
On board expansion bus	-
LAN Port	1000BASE-T/100BASE-TX/10BASE-T Intel 82541PI 100BASE-TX/10BASE-T Intel ICH4 integrated, RJ-45 x 2, support Wake On LAN
IDE I/F	EIDE port x 2, support Ultra DMA 33/66/100, Primary : Connector for on-board 2.5 inches IDE (HDD load-able), CPCI J5 connector *2*3 Secondary : CF slot connection and CPCI J4 connector *2*3 Access LED: Front panel *5
SATA I/F	-
FDD I/F	3.5 inches 2mode I/F CPCI J4 connector *2
CFslot	TypeI/II x 1, IDE secondary port connection, Support booting
SDD socket	-
USB port	USB 2.0 standard 6ch 4ch: USB A TYPE connector(front panel), 2ch: CPCI J5 connector *2
RAID	-
Audio	-
Watchdog Timer	1 - 255sec, 255 level When time up : RESET, interrupt or external output is allowed at time expiration. Reset mode : Input to general purpose I/O of the external signal.
General-purpose I/O	3ch optical isolated inputs and outputs, 15Pin D-SUB(FEMALE) x1
Hardware Monitor	Monitoring of the temperature of CPU and board, power supply voltage, and fan speed

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Item	Specification								
RTC /CMOS	RTC/CMOS data backed up by Lithium battery The following table lists the Lithium battery specifications (button-type)								
	<table border="1"> <thead> <tr> <th>Specification</th> <th>CR2450</th> </tr> </thead> <tbody> <tr> <td>Voltage</td> <td>3V</td> </tr> <tr> <td>Capacity</td> <td>620mAh</td> </tr> <tr> <td>Weight</td> <td>6.3g</td> </tr> </tbody> </table>	Specification	CR2450	Voltage	3V	Capacity	620mAh	Weight	6.3g
	Specification	CR2450							
	Voltage	3V							
	Capacity	620mAh							
Weight	6.3g								
* The backup time of the CR2450 battery is over 7 years (In main power is off, at 25°C).									
* The clock is accurate to +/- 3 minutes/month 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(mm)	CompactPCI (6U double slot) / 160.0(L) x 233.4(H)								
DC Power Requirements	+5VDC±5%, +12VDC±5% (for the heat sink fan), +5VSB(Stand by) ±5% (Only when using the ATX power supply)								
Power supply specifications(Max.)	+5VDC 9A, +12VDC 0.25A(for the heat sink fan) +5VSB(Stand by) 0.5A (Only when using the ATX power supply) (When using the Pentium M 1.6 GHz)								
Operating temperature/ Operating humidity	0 - 50°C /20 - 90%RH (No condensation)								
Storage temperature	-20 - 80°C								
Floating dust particles	Not to be excessive								
Corrosive gases	None								
Weight	680g								
Supported OS	Windows XP Professional Windows XP Home Edition Windows 2000 Professional								

- *1 Each connectors of this board front panel cannot be used simultaneously with J4, J5 connector.
- *2 When using the J4 and J5 connector signal, optional rear panel I/O board (SCP-RPIO-01) and the CPCI back plain boards corresponding to rear panel I/O are required.
- *3 The IDE drives (include on board HDD and CF card) can connect the primary port and the secondary port each maximum two drives. The primary port cannot be used by Ultra DMA 66/100 mode while using on board HDD. The secondary port cannot be used by Ultra DMA 66/100 mode while using CF card.
- *4 The DVI-D connector can connect only the digital (Panel-Link) input type display. The analog RGB input type display is not connectable.
- *5 Access LED blinks at the time of access to on board HDD and CF card. It does not blink at the time of access to the drive connect to IDE signal of J4, J5 connectors. (SCP-RPIO-01 has the access LED of the device that connected to the IDE port of J4, J5 connectors.)
- *6 unsupported.

Option List

CPU

PCPM-16F	Pentium M 1.6GHz (with heat sink-fan)
PCPMC-13F	Celeron M 1.3GHz (with heat sink-fan)

Memory (PC2700 DDR SDRAM DIMM, No parity)

PC-MDD256-184A	184-Pin DDR-Memory (PC2700, 256MB)
PC-MDD512-184A	184-Pin DDR-Memory (PC2700, 512MB)
PC-MDD512-184A	184-Pin DDR-Memory (PC2700, 512MB)

OTHER

SCP-RPIO-01	Rear Panel I/O Board
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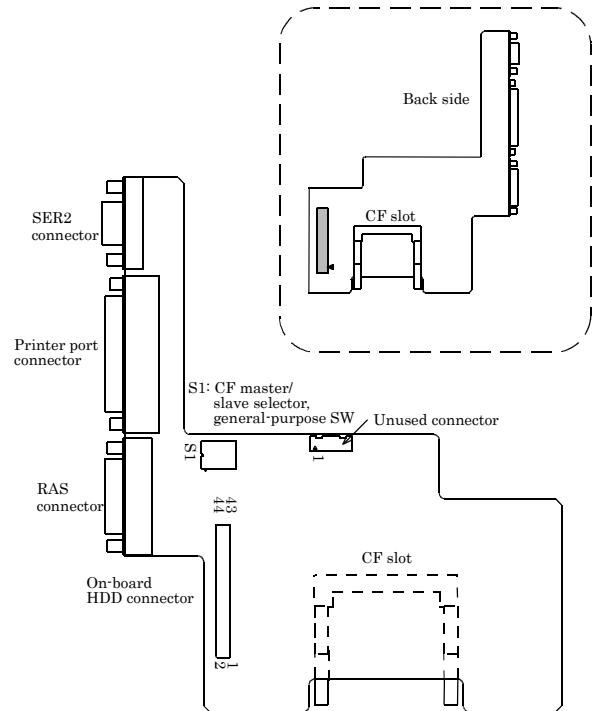
Packing List

- CPU board [SCP-8550-LLV] ...1
- Product guide ...1
- IPC Precaution List ...1
- Driver disk utility *1 (CD-ROM) ...1
- Jumper short pin (2mm) ...2
- Fixed bracket for on-board HDD ...1
- HDD fixed screws (M3 x 4) ...4

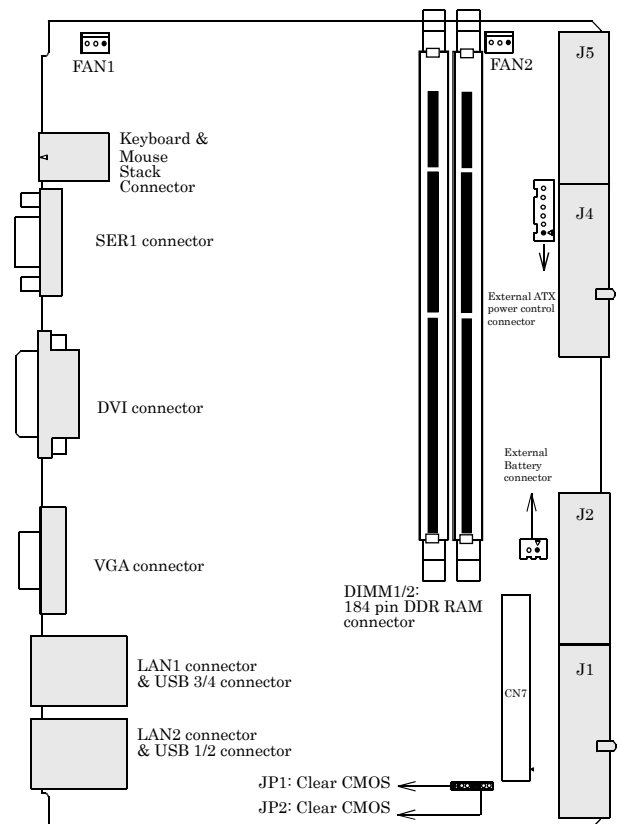
*1 The CD-ROM contains the driver software and User's Manual.

Connector & Jumper Location

Daughter Board



CPU Board



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