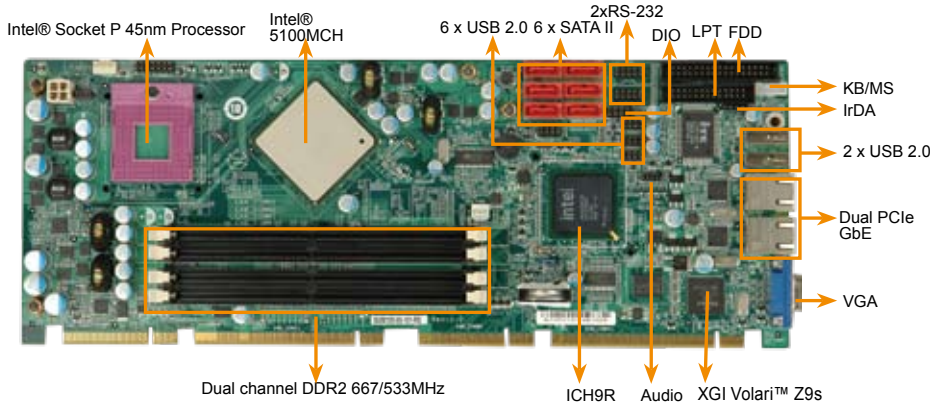# SPCIE–5100P

Full-size PICMG1.3 CPU card supports socket P Intel® 45nm Core™2 Duo processors and comes with VGA, Dual PCIe GbE, SATA II with RAID function, USB and Audio

NEW

Intel® Socket P 45nm Processor   Intel® 5100MCH   6 x USB 2.0 6 x SATA II   2xRS-232   DIO LPT FDD   KB/MS   IrDA   2 x USB 2.0   Dual PCIe GbE   VGA

Dual channel DDR2 667/533MHz   ICH9R   Audio   XGI Volari™ Z9s

Intel® Core™2 Duo Processor (Penryn) Features

Intel® Core™2 Duo family processor
New micro-architecture features for greater performance and new capabilities

Intel's First 45nm micro processors
High-k + metal gate transistors - breakthrough technology that significantly reduces leakage power

Penryn processor

Up to 6MB L2 Cache & 1066 FSB
Larger L2 & higher FSB deliver higher performance

Improved Performance
Performance and energy efficiency lead established by Intel® Core™2 family processors

PICMG1.3 Server Grade Solution

FSB **1066**   DDR2 **667**   ECC Support   Socket **P**

Volari XGI   SERIAL ATA 3Gb/s   HI-SPEED USB CERTIFIED   Gigabit Ethernet   **Intel® Matrix Storage Manager**

Specifications

◆ **CPU**
Socket P Intel® Core™2 Duo processors (Penryn core) with a 1066 MHz FSB
◆ **System Chipset**
Intel® 5100 MCH (San Clemente) + ICH9R chipsets
◆ **BIOS**
AMI Flash BIOS
◆ **System Memory**
Four 240-pin 667/533 MHz dual-channel DDR2 ECC Registered DIMM supported (system max. 8GB)
◆ **Ethernet**
Dual PCIe Ethernet support by Intel® 82574L GbE
◆ **I/O Interface**
2 x RS-232
12 x USB 2.0
(Two on the bracket, six on SBC and four on backplane by pin header)
6 x SATA II with RAID 0,1, 5 and 10
1 x LPT
1 x FDD
1 x 6-pin header for KB/MS
◆ **Digital I/O**
8 bit digital I/O, 4-bit input/ 4-bit output
◆ **Infrared Interface**
1 x Infrared by pin header
◆ **Super I/O**
ITE IT8718F
◆ **Display Interface**
VGA support by XGI Volari Z9s Graphic controller
Support VGA resolution support up to 1600x1200
◆ **Audio**
Support by 7.1 channel HD Audio Kit
◆ **Watchdog Timer**
Software programmable supports 1 ~255 sec. System reset
◆ **Power Supply**
ATX Power
◆ **Power consumption**
3.3V@0.62A, 5V@4.69A, 12V@2.32A (Intel® Core™2 Duo P8600 2.4GHz 1066MHz FSB CPU with 8GB DDR2 667MHz)
◆ **Temperature**
Operation: 0°C ~ 60°C (32°F ~ 140°F)
◆ **Humidity**
Operation: 5% ~95% non-condensing
◆ **Dimension**
338 mm x 126 mm
◆ **Weight**
GW: 1200 g / NW: 420 g

Features

1. PICMG1.3 full size server grade solution
2. Intel® 45nm socket P Core™2 Duo (Mobile Penryn) processor with a 1066 MHz FSB
3. Intel® 5100 server-grade platform supports six PCIe x4 lanes for flexible PCIe application
4. ULV XGI volari Z9s graphic controller support VGA output
5. Four 240-pin DDR2 ECC Registered DIMM supported
6. Six SATA II with RAID support RAID 0, 1, 5 and 10

Packing List

1 x SPCIE-5100P Single Board Computer
1 x Mini jumper pack
6 x SATA cable (P/N: 32000-062800-RS)
1 x Dual RS-232 cable (P/N: 19800-000051-RS)
1 x USB Cable (P/N: CB-USB02-RS)
1 x Utility CD
1 x QIG

Ordering Information

Part No.	Description
SPCIE-5100P-R10	Full-size PICMG1.3 CPU card supports socket P Intel® 45nm Core™2 Duo processors and comes with VGA, Dual PCIe GbE, SATA II with RAID function, USB and Audio
CF-479B-RS	CPU cooler (50mm x 50mm x 26mm, 50W)
AC-KIT883HD-R10	7.1 channel HD audio Kit with Realtek ALC883 support dual audio streams
32200-000017-RS	FDD cable
19800-000049-RS	LPT cable
19800-000075-RS	KB/MS cable with bracket
32100-088600-RS	SATA power cable

1 Industrial Computing Solutions

2 Embedded Computing Solutions

3 RISC-Based Embedded Solutions

4 Industrial Data Collector/ Server Solutions

5 Video Capture Solutions

6 I/O Communication Solutions

7 Panel Solutions

8 Power Supply/ Network Communication/ Peripherals