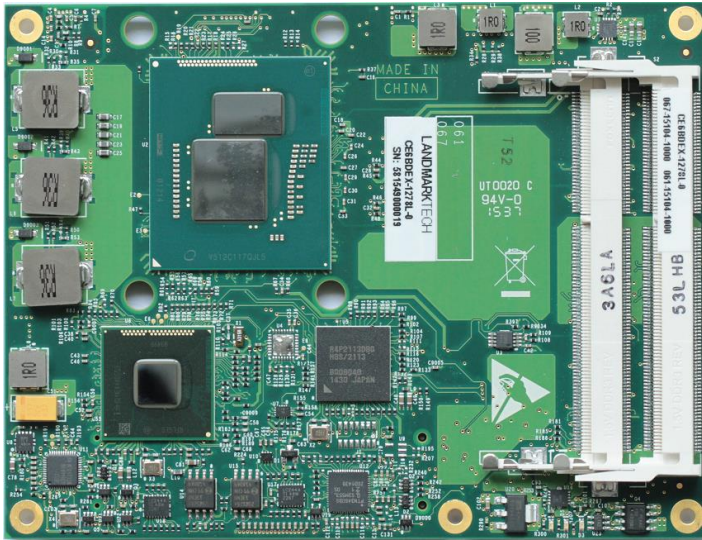


CE6BD COM Express Module



蓝玛科技 CE6BD COM Express 模块，使用英特尔第五代 Core™i7/i5/i3 系列 (Broadwell-H) 处理器和 E3-1200 V4 系列至强处理器，板型尺寸为 125mm x 95mm，符合 PICMG COM Express R2.1 Type 6 标准定义。模块能耗在 20-70 瓦特之间，支持两根高达 8GB DDR3L 内存，千兆网卡，支持 VGA，PEG3.0, LVDS (或 eDP) 和 3 路 DDI 显示输出。CE6BD COM Express 模块可作为高密度计算，如加固型计算机、交通能源、机器人、工业自动化、测试/测量、医学影像、通信等应用，是高计算性能的理想解决方案。

Highlight

- 符合 COM Express R2.1 Type 6 标准的模块
- 高可靠性: 加强的焊接设计，三防处理；可选 ECC 配置版本
- 支持扩展温度: 最高宽达 -40 °C to +85 °C
- 长生命周期 : 7 年

Basic Module Form Factor

CE6BD 基于 125mm x 95mm 的基本型尺寸，支持双通道，高达 16G DDR3L 或 DDR3L-ECC (ECC 配置) 内存，能够结合英特尔第五代 Core™i7/i5/i3 系列 (Broadwell-H) 处理器和 E3-1200 V4 系列至强处理器一起发挥最高的计算和图形处理性能。COM Express (类型六) 的板级连接器能够支持 PCI Express、SATA、USB3.0/2.0、LVDS、DDI 等高速串行差分信号连接。

蓝玛科技 CE6BD 模块基于蓝玛科技 CE6QM87 模块，从英特尔 Broadwell 系列 CPU 发布之初开始设计，经过了严格的长时间测试验证，具有极高的稳定性。因此，原始设备制造商可以专注于核心能力譬如软件和应用开发而不是高速电路设计。原始设备制造商对功能修改、需求变更、性能升级等问题能够轻而易举的实现而无需重新设计产品。

设计服务

基于蓝玛科技 CE6BD COM Express 模块，原始设备制造商在设计自己的载板，能够得到蓝玛科技的全程服务，如原理图检查和建议、调试协助、Gerber 文件参考、BIOS 客制化等等。蓝玛科技支持原始设备制造商在开发产品任何阶段的载板设计咨询和调试服务。想获得更多信息，请咨询你的 LandmarkTech 销售经理或邮件: LMT@landmark-tech.com。

订单信息

类别	型号	描述
Non-ECC 模块	CE6BDEX-5700-0	COM-E Rev 2.1, Type 6 Module with Intel i7-5700EQ /2.6~3.4 GHz /TDP-47W/4Core/6M Cache, EX-TEMP
	CE6BDEX-5850-0	COM-E Rev 2.1, Type 6 Module with Intel i7-5850EQ /2.7~3.4 GHz /TDP-47W/4Core/6M Cache, EX-TEMP
	CE6BDEX-1258L-0	COM-E Rev 2.1, Type 6 Module with Intel Xeon E3-1278 LV4 /2.0~3.3 GHz /TDP-47W/4Core/6M Cache, EX-TEMP
	CE6BDEX-1278L-0	COM-E Rev 2.1, Type 6 Module with Intel Xeon E3-1258L V4 /1.8~3.2 GHz /TDP-47W/4Core/6M Cache, EX-TEMP
ECC 模块	CE6BDEXE-5700-0	COM-E Rev 2.1, Type 6 Module with Intel i7-5700EQ /2.6~3.4 GHz /TDP-47W/4Core/6M Cache, ECC Memory ,EX-TEMP
	CE6BDEXE-5850-0	COM-E Rev 2.1, Type 6 Module with Intel i7-5850EQ /2.7~3.4 GHz /TDP-47W/4Core/6M Cache, ECC Memory ,EX-TEMP
	CE6BDEXE-1258L-0	COM-E Rev 2.1, Type 6 Module with Intel Xeon E3-1278 LV4 /2.0~3.3 GHz /TDP-47W/4Core/6M Cache, ECC Memory , EX-TEMP
	CE6BDEXE-1278L-0	COM-E Rev 2.1, Type 6 Module with Intel Xeon E3-1258L V4 /1.8~3.2 GHz /TDP-47W/4Core/6M Cache, ECC Memory ,EX-TEMP
散热器	CE6QM87HD-AHS-0	CE6QM87 COM-E MODULE, High Performance Active Heat sink
	CE6QM87HD-PHS-0	CE6QM87 COM-E MODULE, High Performance Passive Heat sink
	CE6QM87-AHS-0	CE6QM87 COM-E MODULE, Common Active Heat sink
	CE6QM87-PHS-0	CE6QM87 COM-E MODULE, Common Passive Heat sink
	CE6QM87-HSP-0	CE6QM87 COM-E MODULE, Heat Spreader

CE6BD Module Specifications

Feature	Function	Description
Form Factor	Type	Type 6, 125mm x95mm
	Compliance	PICMG COM Express R2.1 Basic Form Factor
Processor	i7-5700EQ	Intel i7-5700EQ /2.6~3.4 GHz /TDP-47W/cTDP-37W/ 4Core/6M Cache
	i7-5850EQ	Intel i7-5850EQ /2.7~3.4 GHz /TDP-47W/cTDP-37W/ 4Core/6M Cache
	Xeon E3-1278 LV4	Intel Xeon E3-1278 LV4 /2.0~3.3 GHz /TDP-47W/4Core/6M Cache
	Xeon E3-1258L V4	Intel Xeon E3-1258L V4 /1.8~3.2 GHz /TDP-47W/4Core/6M Cache
Chipset	Embedded Intel® QM87 Express chipset	
Memory	Type	2 DDR3L SO-DIMM, up to 1600 MT/s
	Capacity	16GB maximum, up to 8GB per channel
	ECC Supported	ECC memory Supported by ECC SKUs
Flash	16MB SPI flash	16MB SPI flash for BIOS storage
Video	Intel® Iris™ Pro Graphics Or Intel® HD Graphics 5600 integrated graphics engine	LVDS: 18 bit or 24 bit single/dual channel panel with resolutions up to 1920×1200 pixels at 60 Hz; Or eDP:3840×2160 pixels at 60Hz
		VGA: resolutions up to 2048×1536 pixels at 75Hz
		3 DDI supports DP or HDMI or DVI; The resolutions of DP can support up to 4096x2304@60Hz, or 2560x1600@60Hz/4096x2304@60Hz in HDMI mode
	External	One x16 PCI Express interface for external PEG3.0 graphics card
Networking	Single LAN	One 10/100/1000Base-T
Audio	High Definition Audio	Support up to 3 codecs
		Speaker Out
Storage	SATA	4 SATA ports supporting both 6.0、3.0 Gbps and 1.5 Gbps operation
		Supports RAID 0, 1, 5 and 10
PCI Express	PCI Express x1	Seven PCI Express x1 interface
		Ports 0–3 configurable as one x4; or two x2; or one x2 and two x1; or four x1 ports
		Ports 4-5 can be configured as two x1 or one x2 ports
		Ports 6 can be configured as x1

	PCI Express x16	One PCI Express x16 Graphics Expansion Port Configurable as two x8 or one x8 and two x4 ports
USB	USB 3.0	Four USB3.0 expansion ports with transfer rate up to 5Gb/s
	USB 2.0	Eight USB 2.0 expansion ports
LPC		One LPC interface
TPM		Infineon SLB9660 compliant with TPM1.2(Build option)
Power		AT: +12 power rail, primary input, supports 9.0V–16.8V power supply
		ATX: +5V Standby and +12 power rail input, +12 supports 9.0V–16.8V power supply
Power Management		ACPI 4.0 supporting states S0, S3, S4, S5 G3 and C0, C1, C3, C6, C7
		AMT support Intel ME Power States M0, M3, Mox
Miscellaneous		One TTL UART from MCU
		One 100KHz SMBus from PCH
		One 100KHz I2C from MCU
		One FAN speed PWM and TACH
		Eight GPIO (four GPI and four GPO)
		Watchdog timer
BIOS		EFI Firmware
OS	Windows 8	64bit
	Windows 7	32bit
		64bit
	RedHat Enterprise Linux	32bit
		64bit
Wind River VxWorks	VxWorks	

Physical Specifications

Physical	Dimensions	125mm x 95mm		
	Compliance	PICMG COM Express R2.1 Basic Form Factor, Type 6		
Environment	Cooling	Forced air	Class EAC1 as defined in the ANSI/VITA 47-2005	
		Conduction	Class ECC1 as defined in the ANSI/VITA 47-2005	
	Temperature	Operating	Up to 2300m (7500 ft), 0 to 60 °C and -20 to 70 °C ; (Up to 2300m (7500 ft), -40 to 85 °C for HD SKUs)	
			Derated -1.1 C per 305 m (1000 ft) above 2300 m (7500 ft)	

	Shock	Non-operating	-40 to +85 °C
		Operating	30G, half sine shock pulse, 11ms duration, 3 times per face
		Non-Operating/ Unpacked	40G, half sine shock pulse, 11ms duration, 3 times per face (unpackaged)
		Transportation/ Packaged	Fixture assembly: 50G, 17.4ms trapezoidal pulse Drop test, 10-up bulk packaging, 30in free-fall, one drop on each of six faces
	Vibration (random)	Operating	Random 5Hz to 2KHz, 7.7 grms, 10min in each of 3 axes
			5Hz – 20Hz: 0.004g ² /Hz ramping up to 0.04g ² /Hz
			20Hz to 1000Hz: 0.04g ² /Hz
			1000Hz to 2000Hz: 0.04g ² /Hz ramping down to 0.01g ² /Hz
		Non-Operating/ Storage	Random 5Hz to 2KHz, 9.7 grms, 10min in each of 3 axes
			5Hz – 20Hz: 0.006g ² /Hz ramping up to 0.06g ² /Hz
			20Hz to 1000Hz: 0.06g ² /Hz
			1000Hz to 2000Hz: 0.06g ² /Hz ramping down to 0.02g ² /Hz
	Humidity	Operating	5% to 95% non-condensing, 95%RH@30C, linear Derated to 25%RH@60C; 5% to 95% non-condensing, 95%RH@30C, linear Derated to 25%RH@85C for HD SKUs;
		Non-Operating/ Storage	5% to 95% non-condensing
	Altitude	Operating	To 15,000ft (4570m)
Non-Operating/ Storage		To 40,000ft (12000m)	
Regulatory	Safety	UL60950-1, EN60950-1, IEC60950-1	
	RoHS	RoHS compliant	
	EMC	EN55024, EN55022, and FCC Part 15, Subpart B, Class B	