RadiSys®

FEATURE SUMMARY

- PICMG COM Express Revision 1.0 Compliant

- One COM Express module:
  - Basic and Extended Form Factor Modules
  - Type 2 and Type 3 modules

- ATX Form Factor 12" wide by 9.6" deep (305mmx244mm)

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Procelerant CR200

COM Express ATX Carrier Board

The RadiSys Procelerant™ CR200 ATX carrier board is a development platform that enables customers to begin designing with RadiSys COM Express modules immediately. The CR200 products provide a wide range of device connectivity and flexibility to enable comprehensive system prototyping. These boards can also serve as a baseline for customer-specific COM Express carrier boards.

Configuration Options

The CR200-VGA supports Type 3 modules and the CR200-PCIE16 supports Type 2 modules.

Start Your Design Today

The CR200-VGA paired with a RadiSys Procelerant™ CE3100 COM Express module or a CR200-PCIE16 paired with a RadiSys Procelerant™ CE945GM can get your design started. Develop on a standard platform, across all your applications and start saving design time and resources.

Procelerant CR200 Specifications

FEATURE	FUNCTION	DESCRIPTION
PHYSICAL	Dimensions	12" wide by 9.6" deep (305mm x 244mm)
	Compliance	ATX form factor
POWER REQUIREMENT	Input	Standard ATX power supply
ENVIRONMENT	Temperature	+0°C to +60°C, de-rated 2°C per 1000 ft. (300m) over 6600 ft. (2000m). (operating)
		−40° C to +85° C, 5° C per minute maximum excursion gradient.(storage)
	Humidity	5% to 95% non-condensing (operating)
		5% to 90% RH non-condensing at +40° C (storage)
	Shock	30G, trapezoidal 11ms duration (Storage)
	Vibration	5-2000 Hz random, 0.5grms, 10 min minimum in each of 3 axes (operating)
	Storage	5g acceleration over 5-2000 Hz sine wave (P-P), 1 oct/min sine sweep
REGULATORY	Safety	UL60950-1, EN60950-1, IEC60950-1
WARRANTY	-	Two years

CR200-VGA CONFIGURATION FOR TYPE 3 MODULES

FEATURE	FUNCTION	DESCRIPTION
MODULE SUPPORT	Form Factor	Basic and Extended
	Pin-out	Type 2
EXPANSION SLOTS		One PCI Express x16 slot, supports x4 interface only
		One PCI Express x4 slot, supports PCI Express Card and ExpressCard/54 modules
		Two PCI Express x1 slot
		One PCI 2.3 32-bit 33MHz slot
CONNECTORS	COM Express Module	440-pin 8mm COM Express female connector
	Network	Three 10/100/1000BaseT via rear panel RJ-

		45
	SATA/SAS	Four onboard headers
	USB	Two rear panel connectors, two onboard headers
	VGA	Onboard PCI-based VGA controller. One rear panel connector.
	RS-232	Two rear panel connectors
	Floppy	Onboard header
	Parallel Port	Onboard header
	CD-ROM	Onboard header
	PS/2	Two rear panel connectors
	Fans	Three onboard headers
	Power	ATX
	GPIO	One 10-pin onboard header
	SMBus/I2C	Onboard header
	LPC	Onboard header

CR200-PCIE16 CONFIGURATION FOR TYPE 2 MODULES

FEATURE	FUNCTION	DESCRIPTION
MODULE SUPPORT	Form Factor	Basic and Extended
	Pin-out	Type 3
EXPANSION SLOTS		One PCI Express x16 slot, supports MEC-Dual-DVI, MEC-Dual-LVDS and external PEG usage
		One PCI Express x4 slot, supports PCI Express Card and ExpressCard/54 modules
		Two PCI Express x1 slots
		One PCI 2.3 32-bit 33MHz slot
CONNECTORS	COM Express Module	440-pin 8mm COM Express female connector
	Network	One 10/100/1000BaseT via rear panel RJ-45
	SATA/SAS	Four onboard headers
	USB	Two rear panel connectors, six onboard

	headers
VGA	One rear panel connector
RS-232	Two rear panel connectors
Floppy	Parallel Port, Onboard header
Parallel Port	Onboard header
CD-ROM	Onboard header
PS/2	Two rear panel connectors
Fans	Three onboard headers
Power	ATX
GPIO	One 10-pin onboard header
SMBus/I2C	Onboard header
LPC	Onboard header
IDE	One 40-pin onboard header
Compact Flash	One Type II Socket
Audio	1 standard microphone-in, line-out, and headphone-out external audio jacks for HDA/AC97 codec
TV out	One 7-pin connector, composite, S-video, and component video
LVDS	One 18-bit DVD channel LVDS

Ordering Information

Description:

Order Code: CR200-VGA
ATX Carrier for Type 3 modules

Order Code: CR200-PCIE16
ATX Carrier for Type 2 modules

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