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## Procelerant CE 915GME

### COM Express Embedded Computing Module

#### FEATURE SUMMARY

- PICMG Standard form factor ensures compatibility
- Modular form factor decreases time to market and provides technology upgrade insurance
- Low power and high performance processor options to meet application needs
- Small footprint 95mm x 110mm

Based on the open PICMG® standard, the RadiSys Procelerant™ CE COM Express module combines Intel® Pentium® M and Celeron® M performance with key features vital for today's embedded applications. Paired with a RadiSys Procelerant™ CR carrier board, the RadiSys family of COM Express modules provides a final production or a design-specific development platform.

#### PICMG STANDARD

COM Express is the PICMG standard for a Computer-On-Module (COM) based on new serial differential signaling technologies such as PCI Express, Serial ATA, USB 2.0, LVDS, and Serial DVO. The COM Express modular concept enables OEMs to reduce time to market by reducing the time spent on processor design and enabling OEMs to focus on their core competencies and product differentiation. The modularity provides the ability for an OEM to plan for feature and performance changes, contributing to the success of the product over its lifetime.

#### APPLICATIONS

RadiSys COM Express products are ideal for embedded applications that require a standard processor and memory subsystem at the center of their design – and require the modular flexibility to meet customer needs. Other ideal applications include designs that are size constrained and require the small footprint of COM Express.

#### CARRIER DESIGNS SUPPORTED BY RADISYS

Whether customers design their own carrier board or utilize RadiSys Design Services to design one, RadiSys supports the design each step of the way. Tools such as the Carrier Design Guide and Thermal Design Guide, as well as schematics and Gerber files are available for customers committed to using RadiSys Procelerant™ CE processor modules. Ask your RadiSys Sales Manager for more information.

# Procelerant CE 915GME Specifications

FEATURE	FUNCTION	DESCRIPTION
PHYSICAL	Dimensions	95mm x 125mm - COM Express Basic Form Factor
	Compliance	PICMG COM Express R1.0 Basic Form Factor, Type 2
PROCESSOR	Options	LV Pentium-M 738
	Performance Clock Speed/FSB/Cache	CE738A LV Pentium®-M: 1.4GHz/400MHz FSB/2MB Cache
	Package	BGA
	Power	10W (Processor only)
CHIPSET	Supplier	Intel® 915GME with ICH6M I/O Hub
	Features	Integrated video, PCI, IDE, PCI-Express, SATA, USB, LPC, GPIO
MEMORY	Type	Single 200-pin SO-DIMM socket, supports 400 and 533 Memory
	Capacity	Up to 1GB DDR2 in a single channel
BIOS	Type	1MB, Phoenix Technologies
AUDIO	Compliance	AC '97 Intel High Definition Audio via ICH6M I/O Hub
VIDEO	Type	Dual Independent Displays via Intel 915GM Chipset
	Features	Dual SVDO, LVDS 18-bit dual channel, Analog VGA, TV Out
	External	PCI-Express x16 Graphics Port, Multi-plexed on SDVO interface pins
NETWORKING	Type	IEEE 802.3 10BASE-T/100BASE-TX/1000BASE-T Compliant Physical Layer via Intel 82573V - Utilizes (1) PCI-Express x1 interface
I/O	USB	Eight USB 2.0 / 1.1 ports
	SATA	Two SATA 150 ports
	IDE	One Ultra ATA100/66/33 port
	OTHER	LPC, Smbus/I2C Bus
SUPER I/O	BIOS Support	National Semiconductor PC8374, Ask about support for Winbond W83627HF-AW
EXPANSION	PCI Express	3*PCI-Express x1 and 1*PCI-Express x16

	PCI	PCI 2.3 32-bit 33MHz, four logical devices
<b>CONNECTORS</b>	COM Express	(2) 220 pin COM Express standard connectors.
<b>POWER</b>	Input	12V input from carrier board (5V standby)
	Dissipation: 3D Mark (Max)	CE738A: 20.7W

## PHYSICAL SPECIFICATIONS

<b>ENVIRONMENT</b>	Temperature	Operating	0°C – 60°C
		Non-Operating	-40°C – 85°C
	Humidity	Operating	5% to 95% Condensing
		Non-Operating	5% – 90% RH Non-Condensing at 40°C
	Shock	30G, trapezoidal 11ms duration	
	Vibration	Operating	30G, half sine 11ms duration
Storage		50G, half sine 11ms duration 30G	
<b>REGULATORY</b>	Safety	UL60950-1, EN60950-1, IEC60950-1	
	EMC	EN55022, EN55024 and FCC Part 15, Subpart B, Class B.	
<b>WARRANTY</b>	Two years		

## Ordering Information

Call for pricing and availability. Refer to the order codes below.

### ORDER CODES/description:

Module Order Codes:

**CE738B-0** 1.4GHz LV Pentium M, 0MB

Supporting Products:

**CE-PHSA:** Passive Heatsink & Assembly



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