



CCG-RUMBA • Mezzanine Expansion Cards (Side Boards) • Comparison Chart 22 April 2008 • © EKF ekf.com

Expansion Board Features	CCE-PUNK	CCH-MARIACHI	CCI-RAP	CCJ-RHYTHM	CCK-MARIMBA	CCL-CAPELLA	C23-SATA
Main Target Application	FireWire, COM, USB	HD Audio, DVI, COM	Dual PCIe Mini Card Carrier (WLAN, GSM, WAN, Turbo Memory)	CompactPCI Express System Slot Controller	PMC/XMC Carrier	Quad Gigabit Ethernet Controller (Intel 82574)	SATA, COM
Suitable for CPU Board	CCD-CALYPSO CCG-RUMBA	CCG-RUMBA	CCG-RUMBA	CCG-RUMBA	CCG-RUMBA	CCG-RUMBA	CCD-CALYPSO CCG-RUMBA (w/o Audio)
Side Mounting Relative to CPU Board	Top Mount (Right Aligned Assembly) Bottom Mount Version w/o FireWire (Left Aligned Assembly)	Top Mount (Right Aligned Assembly) Bottom Mount Version w/o DVI (Left Aligned Assembly)	Top Mount (Right Aligned Assembly)	Top Mount (Right Aligned Assembly)	Top Mount (Right Aligned Assembly)	Top Mount (Right Aligned Assembly)	Top Mount (Right Aligned Assembly)
Front Panel Connectors	2 x FireWire 1394a 2 x COM RS-232 2 x USB	Audio Analog Audio S/PDIF (Option) up to 2 x COM RS-232 Secondary DVI (Option)	WiFi Antenna (SMA) up to 2 x COM RS-232 2 x FireWire 1394a Secondary DVI (Option)	up to 2 x COM RS-232 2 x FireWire 1394a Secondary DVI (Option) 1 x USB	PMC/XMC Bezel	4 x GBE 1 x FireWire 1394a	3 x COM (2 x RS-232, 1 x RS-232 / RS-485) Audio (Option, only available with CCD-CALYPSO)
Rear I/O Option	J1: IDE, PS/2, USB J2: Serial, LPT, USB, GPIO	J1: IDE, PS/2 J2: Serial, LPT, USB, SMB, GPIO	J1: IDE, PS/2, SIM J2: Serial, LPT, PS/2, SMB, GPIO	XP1: Power XJ2: PCIe Link 3/4 XJ3: PCIe Link 1/2, SMB XJ4: GPIO	J1: XMC/PMC RIO J2: Serial, LPT, PS/2, SMB, GPIO	J1: SATA, GBE J2: Serial, LPT, PS/2, SMB, GPIO	
IDE Controller	ICHx on CPU Carrier Board (P-IDE)	ICHx on CPU Carrier Board (P-IDE)	JMB363 (PCIe to SATA/PATA Controller)	ICHx on CPU Carrier Board (P-IDE)	JMB363 (PCIe to SATA/PATA Controller)	JMB363 (PCIe to SATA/PATA Controller)	JMB363 (PCIe to SATA/PATA Controller)
IDE Storage Options	C17-CFA (CompactFlash Carrier Module) C30-CFA (1.8-Inch Drive Carrier Module) 2.5-Inch on-Board Drive External IDE Device Rear I/O IDE	C17-CFA (CompactFlash Carrier Module) C30-CFA (1.8-Inch Drive Carrier Module) 2.5-Inch on-Board Drive External IDE Device Rear I/O IDE	C17-CFA (CompactFlash Carrier Module) C30-CFA (1.8-Inch Drive Carrier Module)	C17-CFA (CompactFlash Carrier Module) C30-CFA (1.8-Inch Drive Carrier Module) 2.5-Inch on-Board Drive External IDE Device	C17-CFA (CompactFlash Carrier Module) C30-CFA (1.8-Inch Drive Carrier Module)	C17-CFA (CompactFlash Carrier Module) C30-CFA (1.8-Inch Drive Carrier Module)	External IDE Device
SATA Controller			JMB363 (PCIe to SATA/PATA Controller)	<i>Planned Future Revision: JMB363 (PCIe to SATA/PATA Controller)</i>	JMB363 (PCIe to SATA/PATA Controller)	JMB363 (PCIe to SATA/PATA Controller)	JMB363 (PCIe to SATA/PATA Controller)
SATA Storage Options			C20-SATA 2.5-Inch Single/Dual Drive Mezzanine Carrier Board 2 x SATA Latched Headers (External Drives) Rear I/O SATA	<i>C20-SATA 2.5-Inch Single/Dual Drive Mezzanine Carrier Board 2 x SATA Latched Headers (External Drives)</i>	C20-SATA 2.5-Inch Single/Dual Drive Mezzanine Carrier Board 2 x SATA Latched Headers (External Drives) Rear I/O SATA	C20-SATA 2.5-Inch Single/Dual Drive Mezzanine Carrier Board 2 x SATA Latched Headers (External Drives) Rear I/O SATA	2 x SATA Latched Headers (External Drives)
USB Storage Options		Mezzanine USB Flash Module (Top or Bottom Mount)	Mezzanine USB Flash Module (Top or Bottom Mount)	Mezzanine USB Flash Module (Top or Bottom Mount)	Mezzanine USB Flash Module (Bottom Mount)	Mezzanine USB Flash Module (Top or Bottom Mount)	Mezzanine USB Flash Module
PCI Express Switch				PES24T6 6-Port 24-Lane Packet Switch	PES12T3 3-Port 12-Lane Packet Switch	PES12T3 3-Port 12-Lane Packet Switch	
FireWire Controller	XIO2200 1394a		XIO2200 1394a	XIO2200 1394a		XIO2200 1394a	
Super I/O (SIO)	LPC47B27x (2 x COM Ports)	SCH3114 (4 x COM Ports)	SCH3114 (4 x COM Ports)	SCH3114 (4 x COM Ports)	SCH3114 (4 x COM Ports)	SCH3114 (4 x COM Ports)	SCH3114 (4 x COM Ports)
Audio CODEC		ALC262 HD Audio (Azalia)					ALC203 AC97 Audio
Secondary Firmware Hub	82802 Compatible 8Mbit	82802 Compatible 8Mbit	82802 Compatible 8Mbit	82802 Compatible 8Mbit	82802 Compatible 8Mbit	82802 Compatible 8Mbit	82802 Compatible 8Mbit
Trusted Platform Module TPM1.2		Option Infineon SLB 9635, Atmel AT97SC3203	Option Infineon SLB 9635, Atmel AT97SC3203	Option Infineon SLB 9635, Atmel AT97SC3203	Option Infineon SLB 9635, Atmel AT97SC3203	Option Infineon SLB 9635, Atmel AT97SC3203	Option Infineon SLB 9635, Atmel AT97SC3203
Secondary Panellink Transceiver (DVI)		Sil1362	Sil1362	Sil1362			
On-Board SMB EEPROM	Yes	Yes	Yes	Yes	Yes	Yes	Yes
On-Board Temperature Sensors		Yes	Yes	Yes	Yes	Yes	Yes
Inter-Board Connectors	P-EXP, P-IDE, P-PCIE	P-EXP, P-IDE, P-SDVO	P-EXP, P-PCIE, P-SDVO	P-EXP, P-IDE, P-PCIE, P-SDVO	P-EXP, P-PCIE	P-EXP, P-PCIE	P-EXP, P-PCIE