

CMB6X-QM370/CM246 Key features

- Highest Performance COM Express Compact module Type 6 , 95mm x 125mm
- Intel® 8th Generation Core™ processor family and XEON processor family which support ECC
- On board SSD supported
- Advanced graphics performance, interfaces supported include DP/HDMI/DVI, VGA(optional) and DP/LVDS
- High security with TPM 2.0 supported
- High reliability with redundant BIOS and auto-recovery technology supported

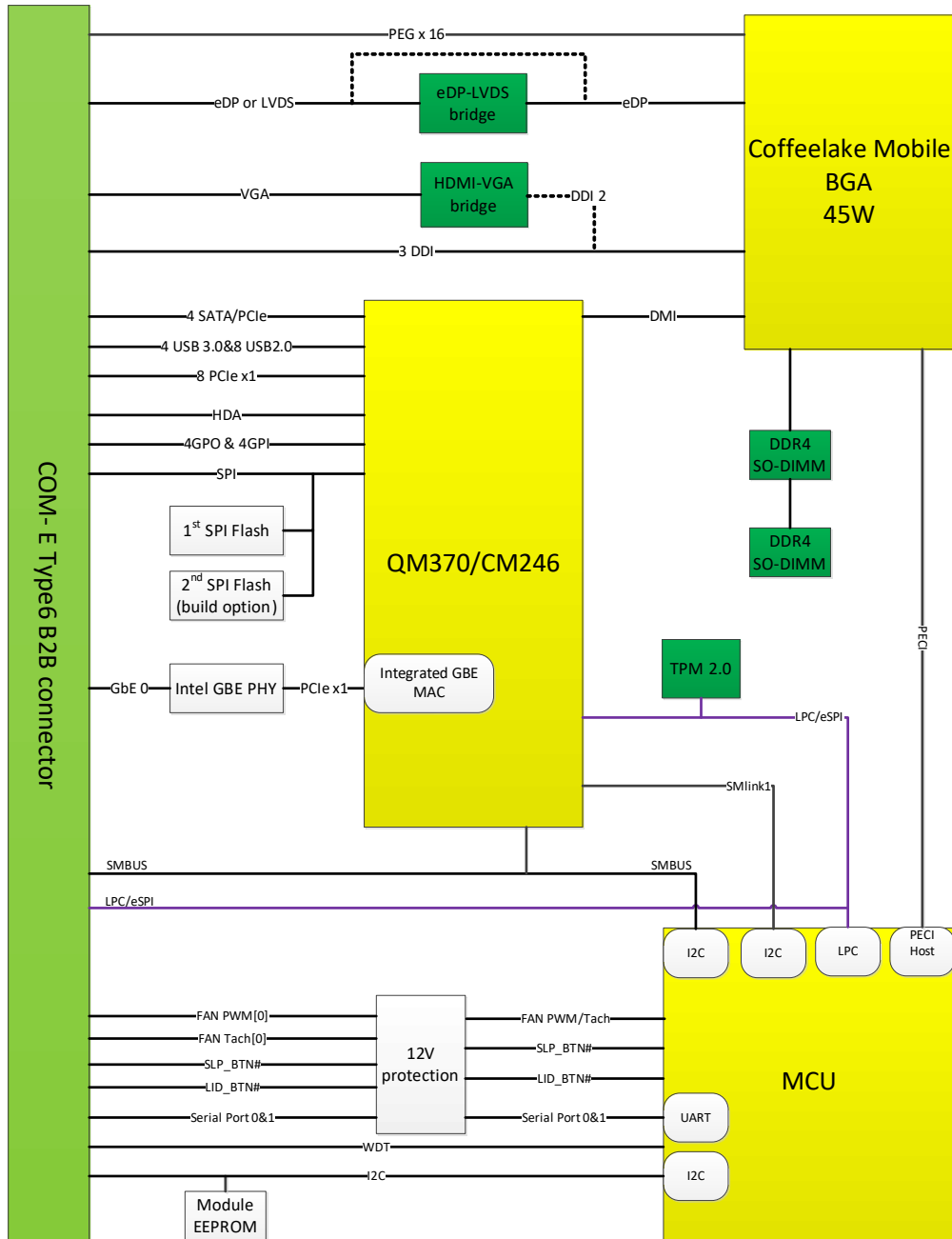
Core System	Form factor	Basic COM Express Type 6 Module, PICMG® COM.0 Specification R3.0
	Processor	Intel® 8 th Generation Core™ processor family and XEON processor family
	Chipset	Intel® QM370 or CM246
	Memory	2x DDR4 SODIMM, up to 64G non-ECC/ECC memory
	Flash	16MB system flash for BIOS storage, with 2nd SPI ROM redundancy, up to 128M SPI
	EC	H8S2113
	BIOS	AMI EFI Aptio® code base BIOS with Intel® AMT support Support boot from secondary SPI flash on module automatically when the 1st SPI flash was damaged.
	OS	Window 10 64bit (installation verification) Red Hat Enterprise Linux 64-bit Ubuntu 16.04 LTS Linux 64-bit
I/O	Ethernet	1 auto negotiating 10/100/1000Mbps Base-T Ethernet interface
	USB	8 x USB 2.0& 4x USB3.0
	SATA	4 x SATA 6 Gbps
	Serial Port	2x UART
	GPIO	4 GPO 和 4 GPI
	PCI Express	1 x16 PEG interface, can be configured based on request 8 x1 PCI Express ports, can be configured based on request
Display	Triple independent display support which can support DP/HDMI/DVI	
	LVDS/eDP option	
	VGA option	
Audio	One High Definition Audio interface	
	One Speaker Out interface	
电源	ACPI 5.0 compliant with Smart Battery support ACPI 5.0 supporting states S0, S3, S4, S5, G3, and C0, C1, C3, C6, C7	
Security	TPM2.0: Infineon SLB 9665 SLB 9665	
API	Power rail voltage level monitoring and reporting via Embedded Controller. The user can get the voltages via API.	
Other features	One Low Pin Count (LPC) interface, compatible with LPC 1.1 Specification	
	One SMBus interface, compatible with SMBus 2.0 Specification	
	One I2C interface	
	EEPROM on module	
	Sleep & LID Button Support	

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Temperature	Commercial operating temperature 0°C to 60°C Industrial operating temperature -40°C to 85°C
Humidity	Operating/Storage: 5% to 95% non-condensing
Shock and Vibration	Adhering to IEC60068 standard
Other features	Safety: IEC60950-1 EMC: EN55024, EN55022, and FCC Part 15, Subpart B, Class B

Functional Diagram



Ordering information

Product code	CPU	Core	Frequency	CPU TDP	Temperature
CMB6-CM246-E2176M	E-2176M	6	2.7GHz	55W	0°C to 60°C
CMB6-QM370-8400H	I5-8400H	4	2.5GHz	45W	0°C to 60°C
CMB6-QM370-8850H	i7-8850H	6	2.6GHz	45W	0°C to 60°C

Developing board

Product code	Description
MI-100	Mini-ITX,Carrier

Optional Accessory

Product code	Description
CMB6X-QM370-AHS	Active Heat sink for CMB6X-QM370

Please kindly contact Joinus Sales if you need more detailed product information.