

EMBEDDED COM EXPRESS® TYPE 6

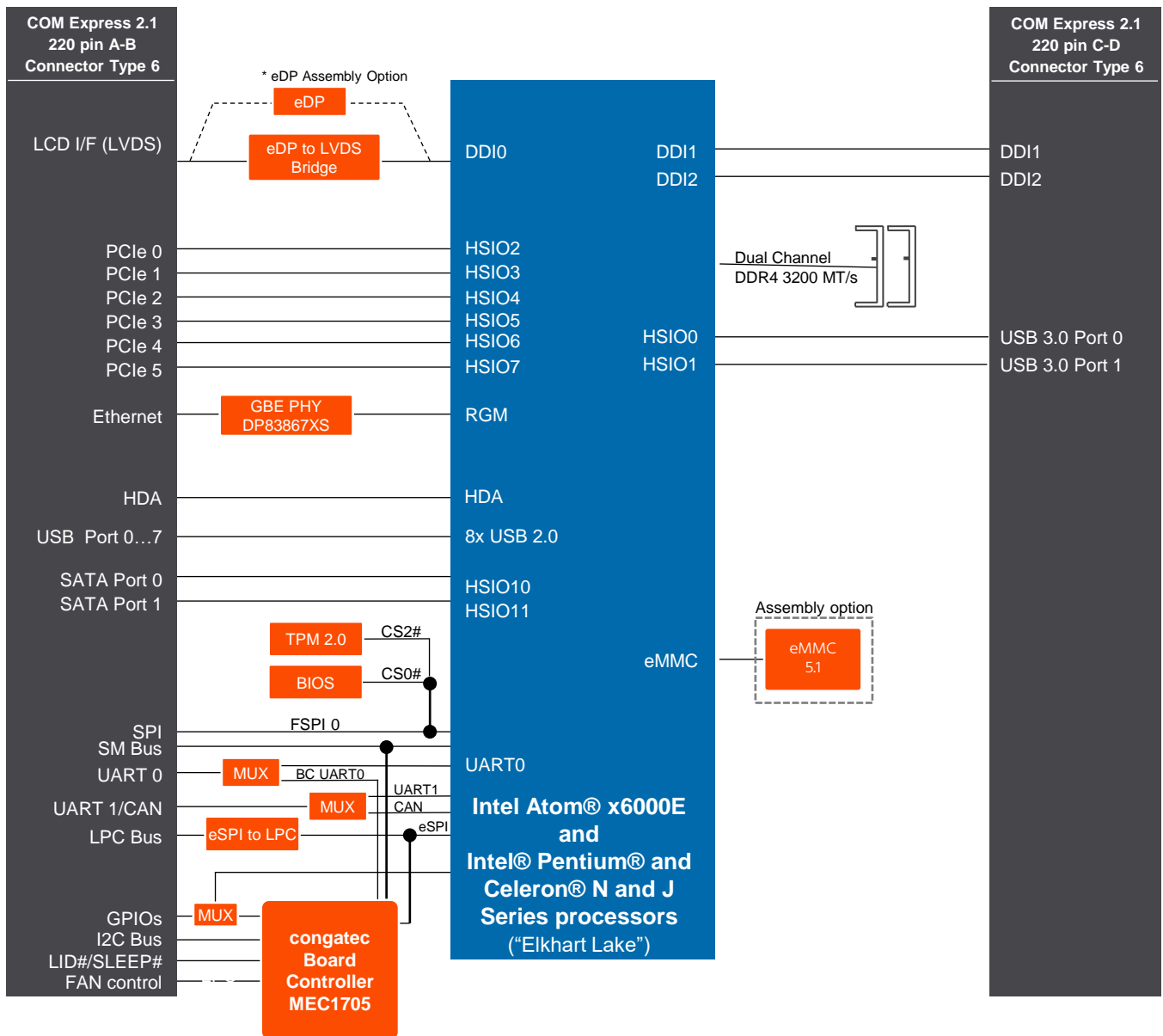
conga-TCA7



- COM Express Type 6 Compact based on Intel® Atom® x6000E Series and Intel® Pentium® and Celeron® J and N Series processors
- High performance Intel® UHD Graphics (Gen11)
- Options for Industrial Temperature Range -40°C to 85°C
- Options for Time Sensitive Networking and Time Coordinated Computing for improved Realtime Capability
- 3.200 MT/s DDR4 SODIMM Memory Support

Form Factor	COM Express® Compact Type 6 (95 x 95 mm)					
CPU	Processor	TDP	Cores/Threads	Base Frequ./Turbo	Gen 11 Gfx	Intel Use Condition
	J6413	10W	4 / 4	1.8 GHz / 3.0 GHz	16 EU	PC Client
	J6426	10W	4 / 4	2.0 GHz / 3.0 GHz	32 EU	PC Client
	x6211E	6W	2 / 2	1.3 GHz / 3.0 GHz	16 EU	Embedded
	x6413E	9W	4 / 4	1.5 GHz / 3.0 GHz	16 EU	Embedded
	x6425E	12W	4 / 4	2.0 GHz / 3.0 GHz	32 EU	Embedded
	x6212RE	6W	2 / 2	1.2 GHz / ---	16 EU	Industrial
	x6414RE	9W	4 / 4	1.5 GHz / ---	16 EU	Industrial
	x6425RE	12W	4 / 4	1.9 GHz / ---	32 EU	Industrial
DRAM	Support for 2x SO DIMM on socket (dual channel DDR4 3.200 MT/s) max. 32 GB system capacity					
Ethernet	Intel® GbE with TSN support and Out-Of-Band Management real-time trigger					
I/O Interfaces	Up to 6x PCIe Gen3 2x USB 3.1 Gen2 up to 8x USB 2.0 2x SATA III 2x UART (UART1 muxed with CAN) GPIO I ² C Bus SMBus SPI LPC					
Mass Storage	Option for onboard eMMC 5.1 flash up to 128 Gbyte					
Audio	Intel® HD Audio					
Graphics	Intel® UHD Graphics (Gen11)					
LVDS	Dual channel 18/24-bit LVDS interface up to 1920x1200@60Hz shared with eDP up to 3840x2160@60Hz (option)					
Digital Display Interface	2x DisplayPort 1.4 4096x2160@60Hz					
congatec Board controller	Multistage watchdog non-volatile user data storage manufacturing and board Information board statistics fast mode and multi-master I ² C bus power loss control					
Embedded BIOS Feature	AMI Aptio® UEFI firmware 32 MByte serial SPI with congatec Embedded BIOS features OEM Logo OEM CMOS Defaults LCD Control Display Auto Detection Backlight Control Flash Update					
Power Management	ACPI 5.0 compliant Smart Battery Management					
Operating Systems	Microsoft® Windows 10 Microsoft® Windows 10 IoT Enterprise Linux (Yocto Project) Android RTS Hypervisor					
Power Consumption	Typ. Application: see manual for full details					
Temperature Range	Commercial: Operating Temperature: 0 to +60°C		Storage Temperature: -20 to +80°C			
	Industrial: Operating Temperature: -40 to +85°C		Storage Temperature: -40 to +85°C			
Humidity	Operating Humidity: 10 to 90% r. H. non cond. Storage Humidity: 5 to 95% r. H. non cond.					
Size	95 x 95 mm (approx. 3.74" x 3.74")					

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Note: Assembly options on request only