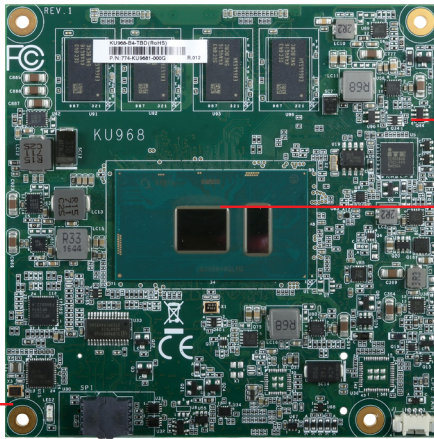


KU968

ULT



DDR4
Memory
Down

Intel® Celeron®/
Core™ i7/i5/i3

CPU Fan

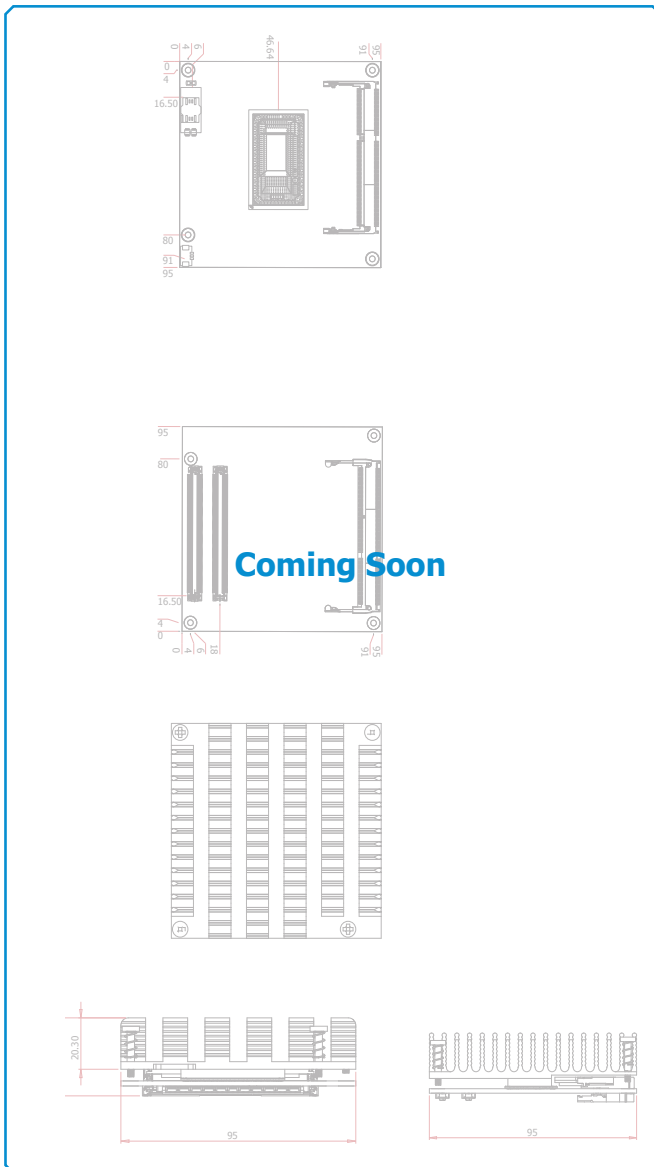
Features

- Dual channel DDR4 2133MHz memory down up to 8GB
- Three independent displays: VGA*/DDI + LVDS*/eDP + DDI
- DP++ supports 4K x 2K resolution
- Multiple expansion: 8 PCIe x1, 1 LPC, 1 I²C, 1 SMBus
- Rich I/O: 1 Intel GbE, 4 USB 3.0, 8 USB 2.0

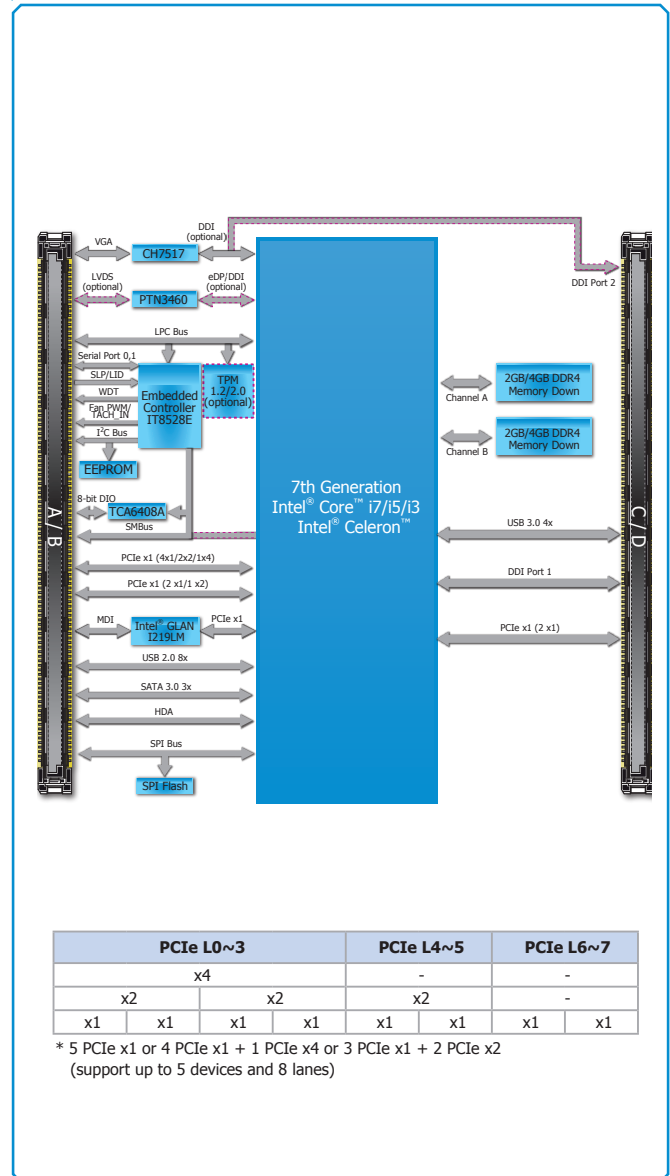
* Populated by default



Mechanical Drawing



Block Diagram



► Specifications

SYSTEM	Processor	7th Generation Intel® Core™ Processors, BGA 1356 Intel® Core™ i7-7600U Processor, Dual Core, 4M Cache, 2.8GHz (3.9GHz), 15W Intel® Core™ i5-7300U Processor, Dual Core, 3M Cache, 2.6GHz (3.5GHz), 15W Intel® Core™ i3-7100U Processor, Dual Core, 3M Cache, 2.4GHz, 15W Intel® Celeron® Processor 3965, Dual Core, 2M Cache, 2.2GHz, 15W	
	Memory	4GB/8GB DDR4 Memory Down	Dual Channel DDR4 2133MHz
	BIOS	Insyde SPI 128Mbit	
GRAPHICS	Controller	Intel® HD Graphics	
	Feature	OpenGL 5.0, DirectX 12, OpenCL 2.1 HW Decode: AVC/H.264, MPEG2, VC1/WMV9, JPEG/MJPEG, HEVC/H265, VP8, VP9 HW Encode: AVC/H.264, MPEG2, JPEG, HEVC/H265, VP8, VP9	
	Display	1 x VGA/DDI (DDI available upon request) 1 x LVDS/eDP (eDP available upon request) 1 x DDI	VGA: resolution up to 2560x1600 @ 60Hz LVDS: dual channel 24-bit, resolution up to 1920x1200 @ 60Hz eDP: resolution up to 1920x1200 @ 60Hz HDMI: resolution up to 4096x2160 @ 30/24Hz DP++: resolution up to 4096x2304 @ 60Hz
	Triple Displays	VGA + LVDS + DDI	DDI + eDP + DDI
EXPANSION	Interface	5 PCIe x1 or 4 PCIe x1 + 1 PCIe x4 or 3 PCIe x1 + 2 PCIe x2 (support up to 5 devices and 8 lanes) 1 x LPC 1 x I ² C 1 x SMBus 2 x UART (TX/RX)	
AUDIO	Interface	HD Audio	
ETHERNET	Controller	1 x Intel® I219LM with iAMT11.0 PCIe (10/100/1000Mbps)	
I/O	USB	4 x USB 3.0 8 x USB 2.0	
	SATA	3 x SATA 3.0 (up to 6Gb/s)	RAID 0/1/5/10
	DIO	1 x 8-bit DIO	
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds	
SECURITY	TPM	Available Upon Request	
POWER	Type	12V, 5VSB, VCC_RTC (ATX mode)	12V, VCC_RTC (AT mode)
	Consumption	TBD	
OS SUPPORT		Windows: Windows 10 IoT Enterprise 64-bit	LINUX: Yocto Project v2.2
ENVIRONMENT	Temperature	Operating: 0 to 60°C	Storage: -40 to 85°C
		-40 to 85°C (with heat spreader)	
	Humidity	Operating: 5 to 90% RH	Storage: 5 to 90% RH
MECHANICAL	MTBF	TBD	
	Dimensions	COM Express® Compact	95mm (3.74") x 95mm (3.74")
	Compliance	PICMG COM Express® R2.1, Type 6	

► Packing List

• 1 KU968 board	
• 1 DVD	
• 1 Heat sink (Height: 23.8mm)	TBD

► Optional Items

• COM332-B carrier board kit	770-CM3321-000G
• Heat spreader (Height: 11mm)	TBD