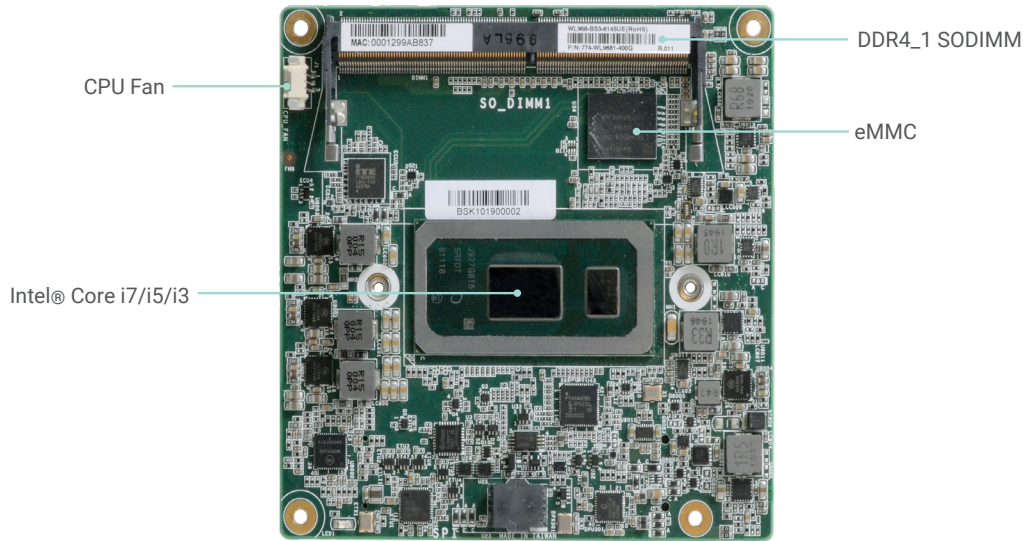


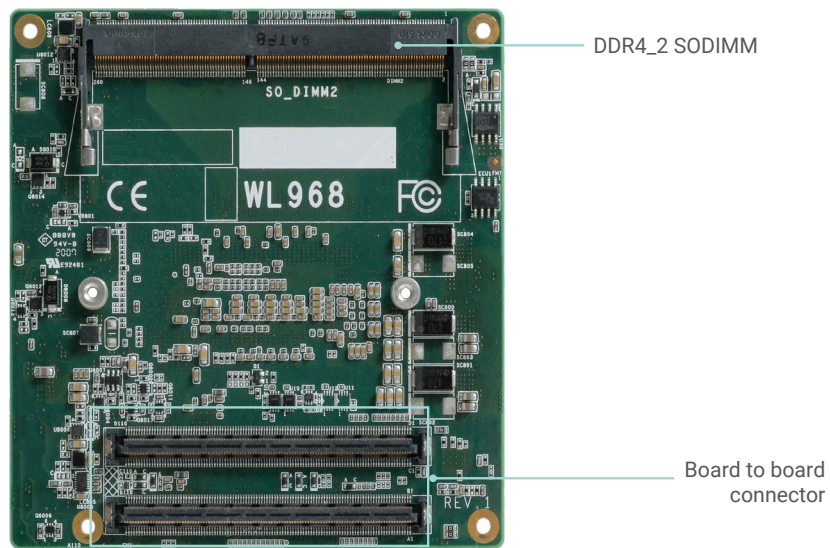
WL968

Desktop

8th Gen Intel® Core™ Processor
COM Express® Compact



Front View



Back View

KEY FEATURES



DDR4

Dual Channel DDR4
2400MHz SODIMM up
to 64GB



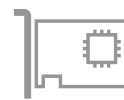
4K High Resolution

DP++ supports 4K x 2K
resolution



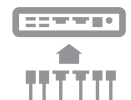
Triple Displays

VGA + LVDS + DDI
or DDI + eDP + DDI



Multiple Expansion

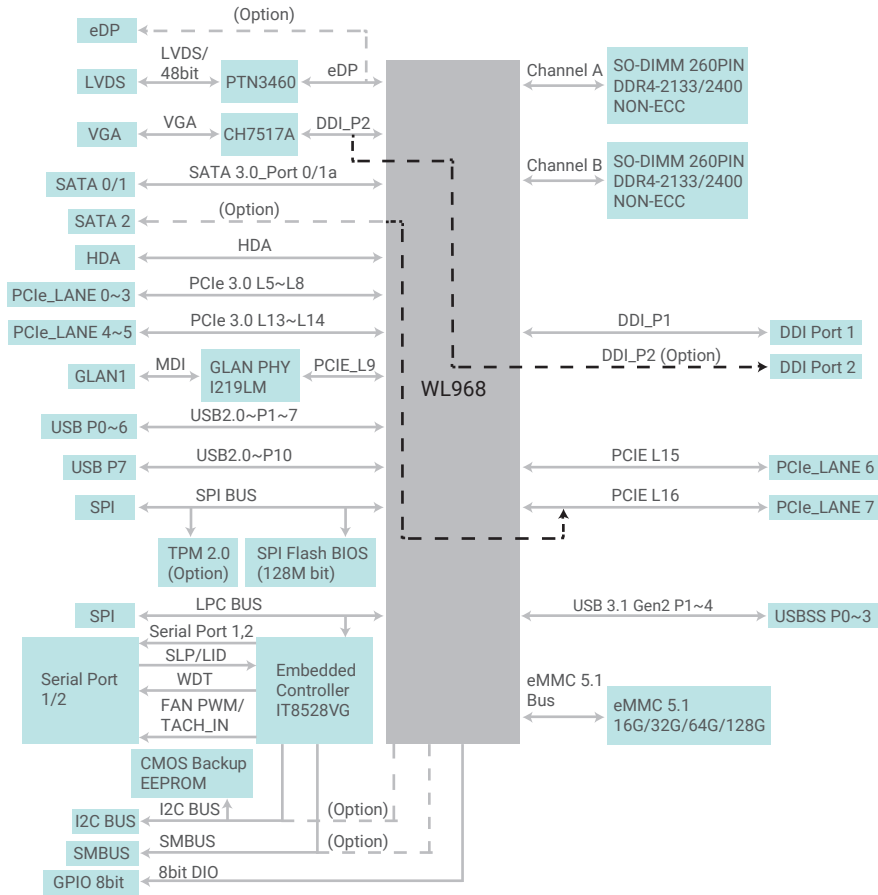
4 or 5 PCIe x1 +
1 PCIe x4 or 3 PCIe x1
+ 2 PCIe x2, 1 LPC,
1 I²C, 1 SMBus, 2 UART



Rich I/O

1 Intel GbE,
4 USB 3.1 Gen1,
8 USB 2.0,
3 SATA 3.0

BLOCK DIAGRAM



MECHANICAL DRAWING



SPECIFICATION

SYSTEM	Processor	8th Gen Intel® Core™ Processor, FCBGA1528 Intel® Core™ i7-8665UE Processor, Quad Core, 8M Cache, 1.7GHz (4.4GHz), 15W Intel® Core™ i5-8365UE Processor, Quad Core, 6M Cache, 1.6GHz (4.1GHz), 15W Intel® Core™ i3-8145UE Processor, Dual Core, 4M Cache, 2.1GHz (3.9GHz), 15W Intel® Celeron® Processor 4305UE, Dual Core, 2M Cache, 2.0GHz (2.0GHz), 15W
	Memory	Two 204-pin SODIMM up to 64GB Dual Channel DDR4 2400MHz
	BIOS	AMI 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 1920x1200 @ 60Hz
		LVDS: dual channel 24-bit, resolution up to 1920x1200 @ 60Hz
Triple Displays	eDP: resolution up to 4096x2304 @ 60Hz	
	HDMI: resolution up to 4096x2160 @ 30Hz	
	DP++: resolution up to 4096x2304 @ 60Hz	
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 I2C
		1 x SMBus
		2 x UART (TX/RX)
eMMC	1 x 8GB/16GB/32GB/64GB/128GB eMMC 5.1 (available upon request)	
AUDIO	Interface	HD Audio
ETHERNET	Controller	1 x Intel® I219LM with iAMT11.0 PCIe (10/100/1000Mbps)
I/O	USB	4 x USB 3.1 Gen2
		8 x USB 2.0
	SATA	3 x SATA 3.0 (up to 6Gb/s) RAID 0/1/5
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	OS Support	Windows: Windows 10 IoT Enterprise 64-bit
		Ubuntu 18.04
ENVIRONMENT	Temperature	Operating: 0 to 60°C -40 to 85°C (with heat spreader)
		Storage: -40 to 85°C
	Humidity	Operating: 5 to 90% RH Storage: 5 to 90% RH
MTBF	TBD	
MECHANICAL	Dimensions	COM Express® Compact 95mm (3.74") x 95mm (3.74")
	Compliance	PICMG COM Express® R3.0, Type 6
STANDARDS AND CERTIFICATIONS	Certification	CE, FCC, RoHS, UKCA

PACKING LIST

1 WL968 board	
1 CPU Cooler (for -40 to 85°C, H=35.2mm)	A71-108124-000G
1 Heat sink (for 0 to 60°C, H=26.8mm)	A71-008137-000G

OPTIONAL ITEMS

COM332-B carrier board kit	770-CM3321-000G
Heatspreader (H=11mm)	A71-808324-000G