

ASL968

Intel® Atom® Processor Amston Lake Series
COM Express® Compact



Front View



Bottom View

KEY FEATURES



DDR5

Single Channel DDR5
4800MHz SODIMM
up to 16GB



4K High Resolution

Supports 4K / 2K resolution



Triple Displays

1 LVDS/eDP, 2 DDI



Multiple Expansion

Up to 7 PCIe x1



RICH I/O

1 Intel 2.5GbE,
up to 4 USB 3.2,
2 SATA 3.0

SPECIFICATION

SYSTEM	Processor	Intel® Atom x7000RE series processors (Code Name: Amston Lake) Intel® Atom Processor x7835RE, 8 Cores, 1.3~3.6GHz, 12W Intel® Atom Processor x7433RE, 4 Cores, 1.5~3.4GHz, 9W Intel® Atom Processor x7211RE, 2 Cores, 1.0~3.2GHz, 6W	
	Memory	One 262-pin SODIMM up to 16GB Single Channel DDR5 4800MHz In-band ECC (IBECC) supported	
	BIOS	AMI SPI 256MHz	
GRAPHICS	Controller	Intel® UHD	
	Feature	DX12, Open GL 4.6, Vulkan 1.2 HW Decode: 4K60 10b 4:2:0, 4:4:4 HEVC/VP9/SCC, 4K60 10b 4:2:0 AV1 HW Encode: 4K60 10b 4:2:0, 4:4:4 HEVC/VP9/SCC	
	Display	1 x LVDS/eDP 2 x DDI	LVDS: dual channel 1920x1200 @60Hz eDP: 4096x2160 @60Hz
	Triple Displays	LVDS/eDP + 2 DDI	
EXPANSION	Interface	Up to 7x PCIe x1 (Gen3)(3x PCIe x1 co-layout w/Ethernet and SATA, available upon request) 1 x I ² C 1 x SMBus 1 x LPC/eSPI 2 x UART 1 x CAN (co-layout with UART)	
AUDIO	Interface	HD Audio	
ETHERNET	Controller	1 x Intel® I226 series (10/100/1000/2500Mbps), co-lay 1 x PCIe x1 (available upon request)	
I/O	USB	2 x USB 3.2 Gen2 (option to 4 ports by USB hub) 8 x USB 2.0	
	SATA	2 x SATA 3.0 (up to 6Gb/s), co-lay 2 x PCIe x1 (available upon request)	
	eMMC 5.1	1 x 64GB eMMC	
	DIO	1 x 8-bit DIO	
WATCHDOG TIMER	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds	
SECURITY	TPM	TPM 2.0 (Option: fTPM)	
POWER	Type	8.5~20V, 5VSB, VCC_RTC (ATX mode)	
		8.5~12V, VCC_RTC (AT mode)	
	Consumption	TBD	
OS SUPPORT	Microsoft	Windows 11/10 IoT Enterprise 64-bit	
	Linux	Linux	
ENVIRONMENT	Temperature	Operating: -40°C~85°C	Storage: -40°C~85°C
	Humidity	Operating: 10%~90% RH	Storage: 10%~90% RH
	MTBF	TBD	
MECHANICAL	Dimensions	COM Express® Compact	95mm (3.74") x 95mm (3.74")
	Compliance	PICMG COM Express® R3.1, Type 6	
STANDARDS AND CERTIFICATIONS	Certification	CE, FCC, RoHS	