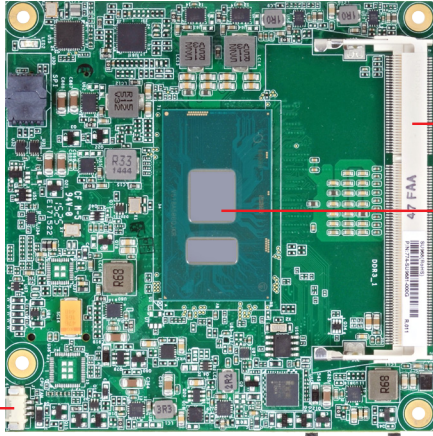


SU968

ULT



DDR3L SODIMM

Intel Core i7/i5/i3

CPU Fan

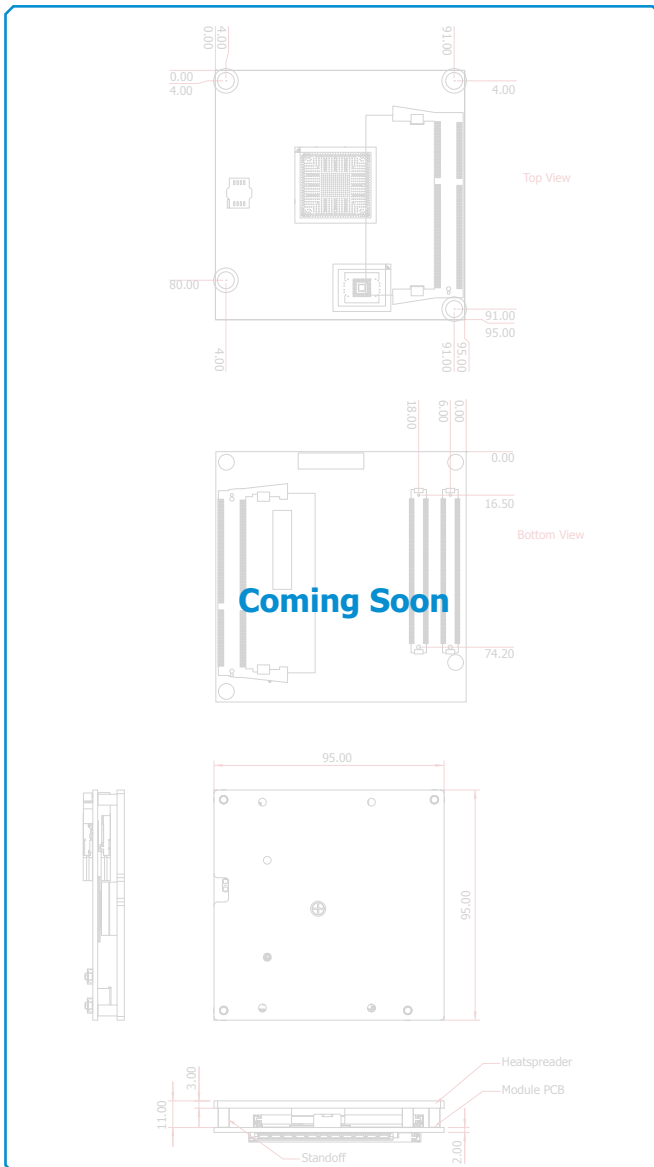
Features

- Dual channel DDR3L 1600MHz SODIMM up to 16GB
- 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

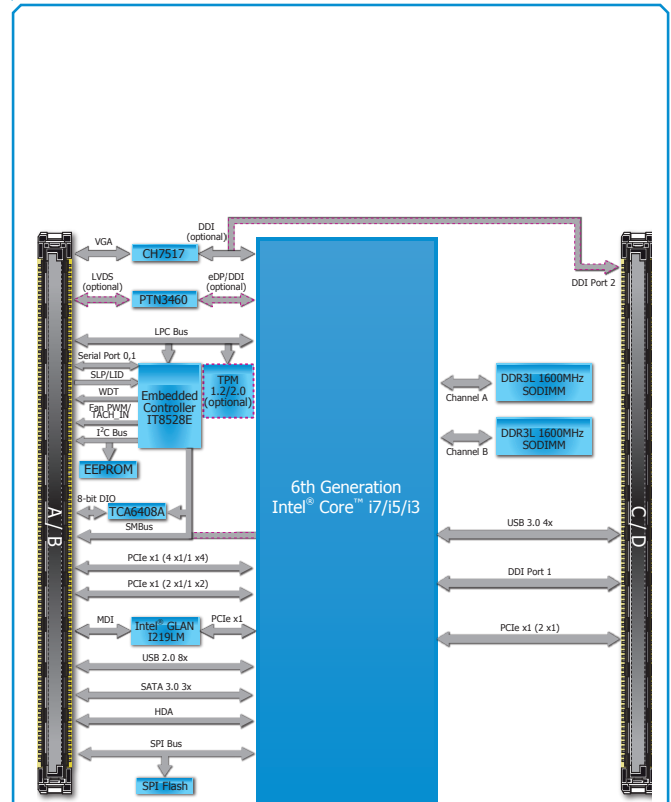
* Populated by default



Mechanical Drawing



Block Diagram



PCIe L0~3		PCIe L4~5		PCIe L6~7	
x4		-		-	
x2		x2			
x1	x1	x1	x1	x1	x1

* 5 x PCIe x1 or 4 PCIe x1 + 1 PCIe x4 (support up to 5 devices and 8 lanes)

Specifications

SYSTEM	Processor	6th Generation Intel® Core™ Processors, BGA 1356 Intel® Core™ i7-6600U Processor, Dual Core, 4M Cache, 2.6GHz (3.4GHz), 15W Intel® Core™ i5-6300U Processor, Dual Core, 3M Cache, 2.4GHz (3.0GHz), 15W Intel® Core™ i3-6100U Processor, Dual Core, 3M Cache, 2.3GHz, 15W Intel® Celeron® Processor 3955U, Dual Core, 2M Cache, 2.0GHz, 15W	
	Memory	Two 204-pin SODIMM up to 16GB	Dual Channel DDR3L 1600MHz
	BIOS	Insyde SPI 128Mbit	
GRAPHICS700C-200CWide Temperature	Controller	Intel® HD Graphics GT Series	
	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 HDMI: resolution up to 4096x2160 @ 24Hz or 2560x1600 @ 60Hz DP++: resolution up to 4096x2304 @ 60Hz
	Triple Displays	VGA + LVDS + DDI	DDI + eDP + DDI
EXPANSION	Interface	5 x PCIe x1 or 4 PCIe x1 + 1 PCIe x4 (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) (only Core i7/i5 supports iAMT)	
I/O	USB	4 x USB 3.0 8 x USB 2.0	
	SATA	3 x SATA 3.0 (up to 6Gb/s) (Core i7/i5) 2 x SATA 3.0 (up to 6Gb/s) (Celeron)	RAID 0/1/5/10 (Core i7/i5)
	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	Typical: I7-6600U: 12V @ 0.86A (10.28Watt) Max.: I7-6600U: 12V @ 1.372A (16.46Watt)	
OS SUPPORT		Windows 7 (/WES7) 32/64-bit Windows 8.1 (64-bit) Windows 10 IoT Enterprise 64-bit	Debian 8 (with VESA graphic driver) CentOS 7 (with VESA graphic driver) Ubuntu 15.10 (Intel graphic driver available)
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	921,923 hrs @ 25°C; 460,715 hrs @ 45°C; 256,677 hrs @ 60°C Calculation Model: Telcordia Issue 2, Method Case 3 Environment: GB, GC – Ground Benign, Controlled	
MECHANICAL	Dimensions	COM Express® Compact	95mm (3.74") x 95mm (3.74")
	Compliance	PICMG COM Express® R2.1, Type 6	

Ordering Information

Model Name	P/N	Processor	Memory	VGA/DDI	LVDS/eDP	GbE	USB 3.0	USB 2.0	SATA	Power	Thermal	Temp.
SU968-BS-6600U	770-SU9681-100G	i7-6600U	2 SODIMM	VGA	LVDS	1	4	8	3	ATX/AT	Fanless	0 to 60°C
SU968-BS-6300U	770-SU9681-400G	i5-6300U	2 SODIMM	VGA	LVDS	1	4	8	3	ATX/AT	Fanless	0 to 60°C
SU968-BS-3955U	770-SU9681-500G	3955U	2 SODIMM	VGA	LVDS	1	4	8	2	ATX/AT	Fanless	0 to 60°C

Note: i3-6100U is supported upon request with MOQ requirement.

Packing List

• 1 SU968 board	
• 1 DVD	
• 1 Heat sink (Height: 23.8mm)	A71-011060-000G

Optional Items

• COM332-B carrier board kit	770-CM3321-000G
• Heat spreader (Height: 11mm)	A71-011070-000G