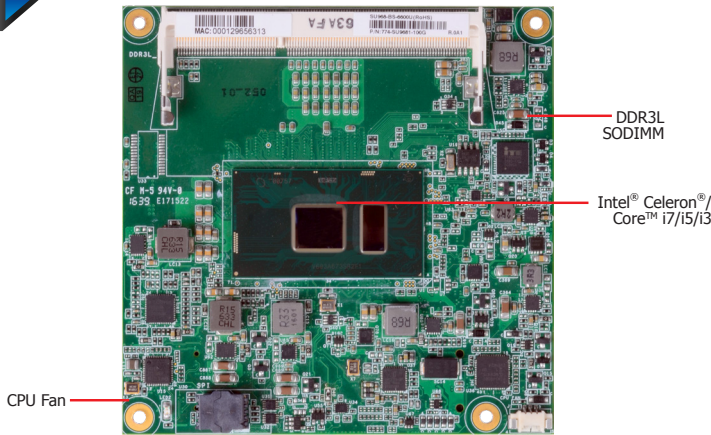


SU968

ULT



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

DP++

4096x2304

4K2K Display

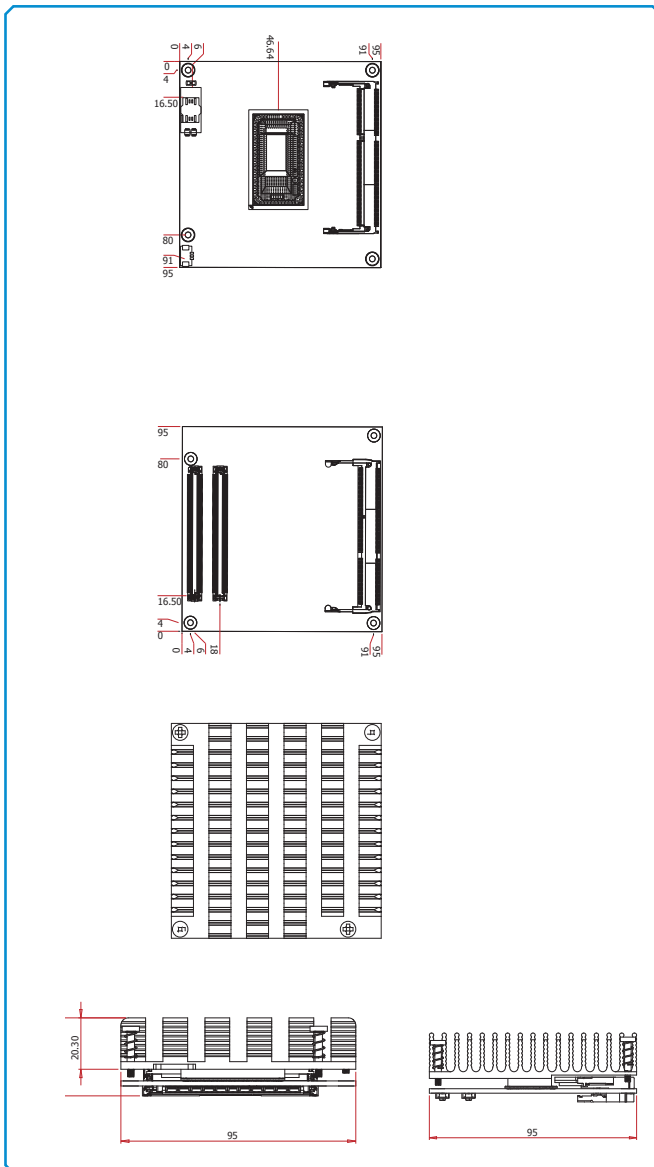
AMT

85°C
-40°C

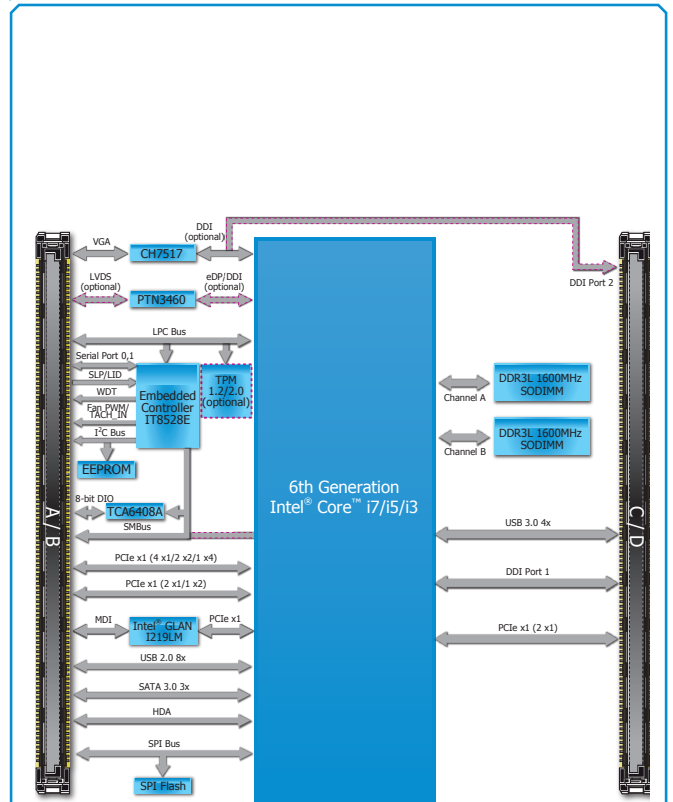
Wide Temperature

R2.1
Type6

Mechanical Drawing



Block Diagram



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

* 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)

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
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) VGA: resolution up to 1920x1200 @ 60Hz 1 x LVDS/eDP (eDP available upon request) LVDS: dual channel 24-bit, resolution up to 1920x1200 @ 60Hz 1 x DDI HDMI: resolution up to 4096x2160 @ 24Hz or 2560x1600 @ 60Hz DP++: resolution up to 4096x2304 @ 60Hz eDP: 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) (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) RAID 0/1/5/10
	DIO	1 x 8-bit DIO
	WATCHDOG TIMER	Output & Interval
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) Ubuntu 16.04 (Intel graphic driver available) Windows 8.1 (64-bit) Windows 10 IoT Enterprise (64-bit)
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
	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	3	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