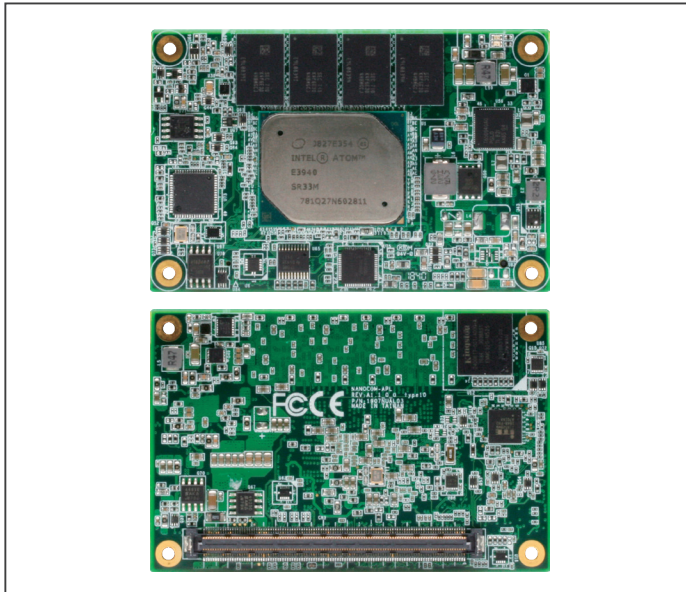


NanoCOM-APL

COM Express Type 10 Module with Intel® Atom™ Processor SoC



Specifications

System	
Form Factor	COM Express Mini size, Type 10
CPU	Onboard Intel® Atom™/Celeron®/Pentium® SoC
CPU Frequency	Up to 2.5 GHz
Chipset	Intel® Atom™/Celeron®/Pentium® SoC
Memory Type	Onboard LPDDR4 4GB (Default) / 8GB (Optional)
Max. Memory Capacity	8GB LPDDR4 Onboard
BIOS	AMI BIOS, Legacy free
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	Standard : +12V, AT/ATX
Power Supply Type	AT/ATX
Power Consumption (Typical)	Up to E3950 TDP 12W CPU
Dimension (L x W)	3.31" x 2.17" (84mm x 55mm)
Operating Temperature	32 °F ~ 140 °F (0 °C ~ 60 °C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	80,000
Certification	CE/FCC Class A
Display	
Display Controller	Intel® HD Graphics 500 / 505
Video Output	LVDS LCD/eDP, DDI x 1
LVDS Interface	Supports 18-bit and 24-bit Single channel
I/O	
Ethernet	Intel® I210IT
Audio	High Definition Audio Interface
USB port	USB 2.0 x 8, USB 3.2 Gen 1 x 2
Serial Port	TX/RX x 2
HDD Interface	SATA 3 x 2
Onboard Storage	Optional onboard eMMC
Expansion Slot	PCIe [x1] x 4 (up to 3 devices) LPC SMBus I2C
GPIO	GPIO 8-bit
TPM	—

Features

- Intel® Atom™/Celeron®/Pentium® SoC
- Onboard Memory LPDDR4 4GB/8GB
- Intel® I210/I211
- Support eDP/LVDS, DDI D
- SATA x2, eMMC 5.x (optional, up to 64GB)
- USB 2.0 x8 + USB 3.2 Gen 1 x 2
- 2-wire UART, Tx/Rx x2
- PCI-Express [x1] x4, 3 device available at anytime
- DC Input Range, 12V
- COM Express Mini Size, Pin-Out Type 10



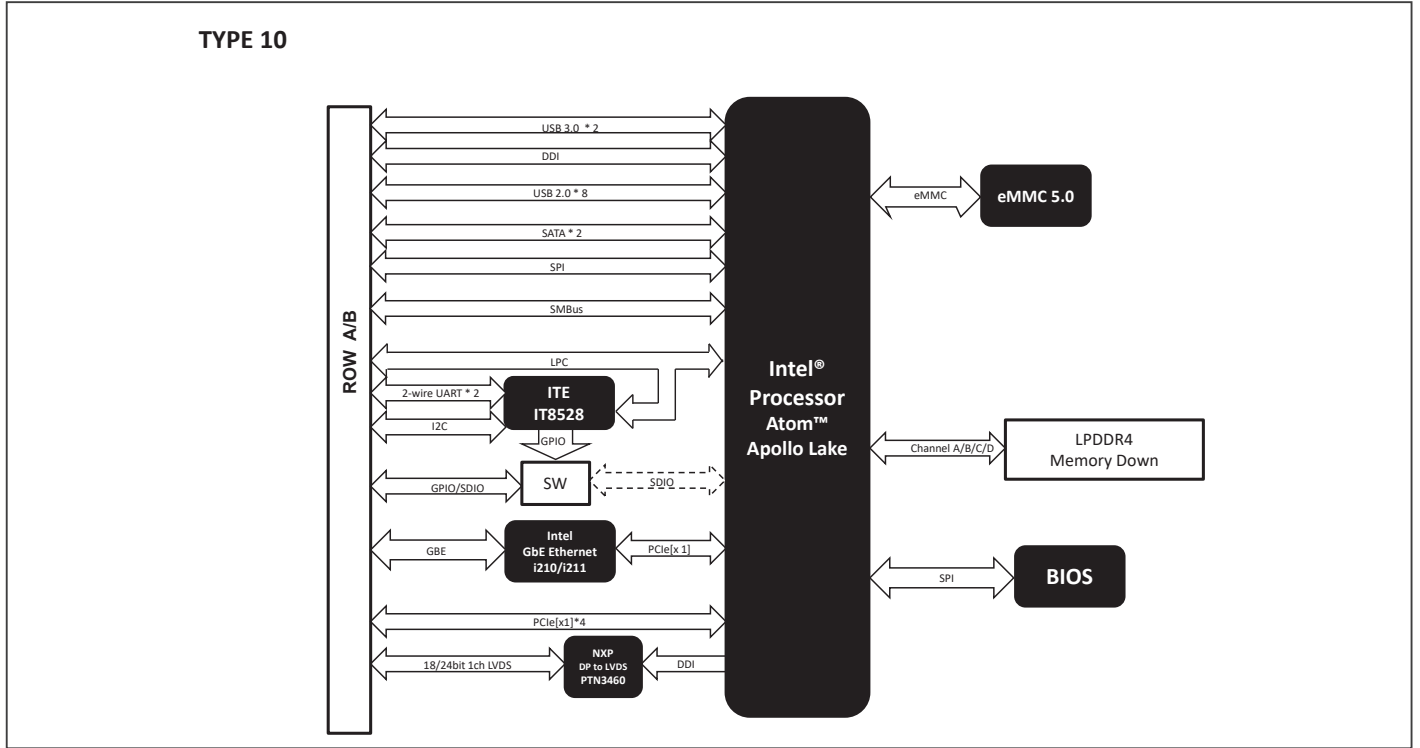
Packing List

- NanoCOM-APL

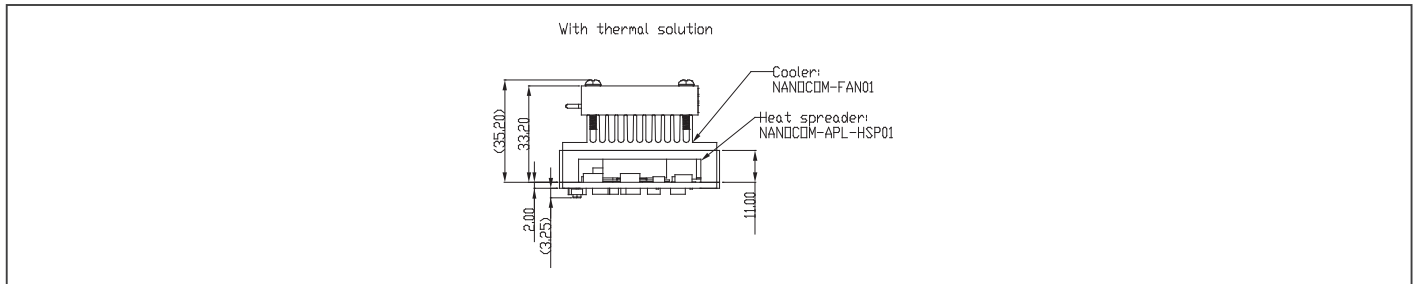
Optional Accessories

- **NanoCOM-APL-E-HSP01**
Heat Spreader 84 x 55 x 11 mm, Black, NanoCOM-APL For E39xx CPU only
- **NanoCOM-APL-N-HSP01**
Heat Spreader 84 x 55 x 11 mm, Black, NanoCOM-APL For Nxxx CPU only
- **NanoCOM-FAN01**
CPU Cooler, 84 x 55 x22.2 mm, Silver, use w/HSP
- **ECB-920A-A10-0001**
COM Type 1/6/10, Carrier Board, ATX, GbE, 8USB, 2COM, 4SATA, PCIe, AT/ATX, Legacy Free, Rev. A1.0

Block Diagram Unit: mm



Dimension Unit: mm



Ordering Information

Standard Part Number	COM Express Type	CPU	Memory	Display	LVDS	Storage	LAN	USB	UART	Expansion Slot	Power	Temp	Others
NANOCOM-APL-A11-0001	Type 10 (COM.0 Rev3.0)	N4200	4GB DDR4	LVDS, DDIx1	18/24 bit 1-channel (Optional : eDP)	SATA x2 32GB eMMC	GbE x 1	USB 3.2 Gen 1 x 2 USB 2.0 x 8	2 (TX/RX)	PCI-E[x1] x4	12V	0°C-60°C	I2C, SMBus, 8b-GPIO/(SDIO)
NANOCOM-APL-A11-0002	Type 10 (COM.0 Rev3.0)	N3350	4GB DDR4	LVDS, DDIx1	18/24 bit 1-channel (Optional : eDP)	SATA x2 32GB eMMC	GbE x 1	USB 3.2 Gen 1 x 2 USB 2.0 x 8	2 (TX/RX)	PCI-E[x1] x4	12V	0°C-60°C	I2C, SMBus, 8b-GPIO/(SDIO)
NANOCOM-APL-A11-0003	Type 10 (COM.0 Rev3.0)	E3950	8GB DDR4	LVDS, DDIx1	18/24 bit 1-channel (Optional : eDP)	SATA x2 64GB eMMC	GbE x 1	USB 3.2 Gen 1 x 2 USB 2.0 x 8	2 (TX/RX)	PCI-E[x1] x4	12V	0°C-60°C	I2C, SMBus, 8b-GPIO/(SDIO)