

## Features

- Onboard LPDDR4, up to 4GB
- LVDS x 1, DDI x 1
- USB 2.0 x 8, USB 3.2 Gen 1 x 2
- PCIe [x1] x 4
- Intel® I219-LM GbE x 1
- COM Express Type 10, 3.31" x 2.17" (84mm x 55mm)



## Specifications

| System                      |   |
|-----------------------------|---|
| Form Factor                 | COM Express Mini Size, Type 10  |
| CPU                         | 6th Generation Intel® Core™ Processors:<br>Intel® Core™ i7-6600U (2C/4T, 2.60 GHz, 15W)<br>Intel® Core™ i5-6300U (2C/4T, 2.40 GHz, 15W)<br>Intel® Core™ i3-6100U (2C/4T, 2.30 GHz, 15W)<br><br>Intel® Celeron® Processor 3000 Series:<br>Intel® Celeron® Processor 3955U (2C/2T, 2.00 GHz, 15W) |
| Chipset                     | Integrated with Intel® SoC  |
| Memory                      | Onboard LPDDR4 2133MHz, up to 8GB   |
| Onboard Storage             | —   |
| BIOS                        | AMI UEFI  |
| Wake on LAN                 | Yes   |
| Watchdog Timer              | 255 Levels  |
| Dimension                   | 3.31" x 2.17" (84mm x 55mm)   |
| Security                    | fTPM  |
| Power                       |   |
| Power Requirement           | +12V and +5VSB for ATX, +12V for AT   |
| Power Type                  | AT/ATX  |
| Power Consumption (Typical) | Intel® Core™ i7-6600U, 1.52A @+12V  |
| Display                     |   |
| Graphics Controller         | Intel® HD Graphics 510<br>Intel® HD Graphics 520  |
| Video Output                | Dual Display:<br>DDI x 1, up to 2560 x 1440<br>18/24-bit Single-Channel LVDS/eDP x 1, up to 2560 x 1440"  |
| I/O                         |   |
| Ethernet                    | Intel® I219-LM GbE x 1  |
| Audio                       | High Definition Audio Interface   |
| USB Port                    | USB 2.0 x 8, USB 3.2 Gen 1 x 2  |
| Serial Port                 | 2-Wire UART x 2 (Tx/Rx)   |
| HDD Interface               | SATA III x 2  |

| Expansion             | PCIe 3.0 [x1] x 4<br>LPC x 1  |
|-----------------------|---|
| GPIO                  | 8-bit   |
| SMBus/I2C             | I2C x 1, SMBus x 1  |
| Environment           |   |
| Operating Temperature | 32°F ~ 140°F (0°C ~ 60°C)<br>Optional: -40°F ~ 185°F (-40°C ~ 85°C) |
| Storage Temperature   | -40°F ~ 185°F (-40°C ~ 85°C)  |
| Operating Humidity    | 0% ~ 90% relative humidity, non-condensing                          |
| EMC                   | CE/FCC Class A  |
| OS Support            | Windows® 10 (64-bit)<br>Linux Ubuntu 16.04.2/Kernel 4.8.0           |
| Weight                | 0.15 lb. (0.07Kg)   |

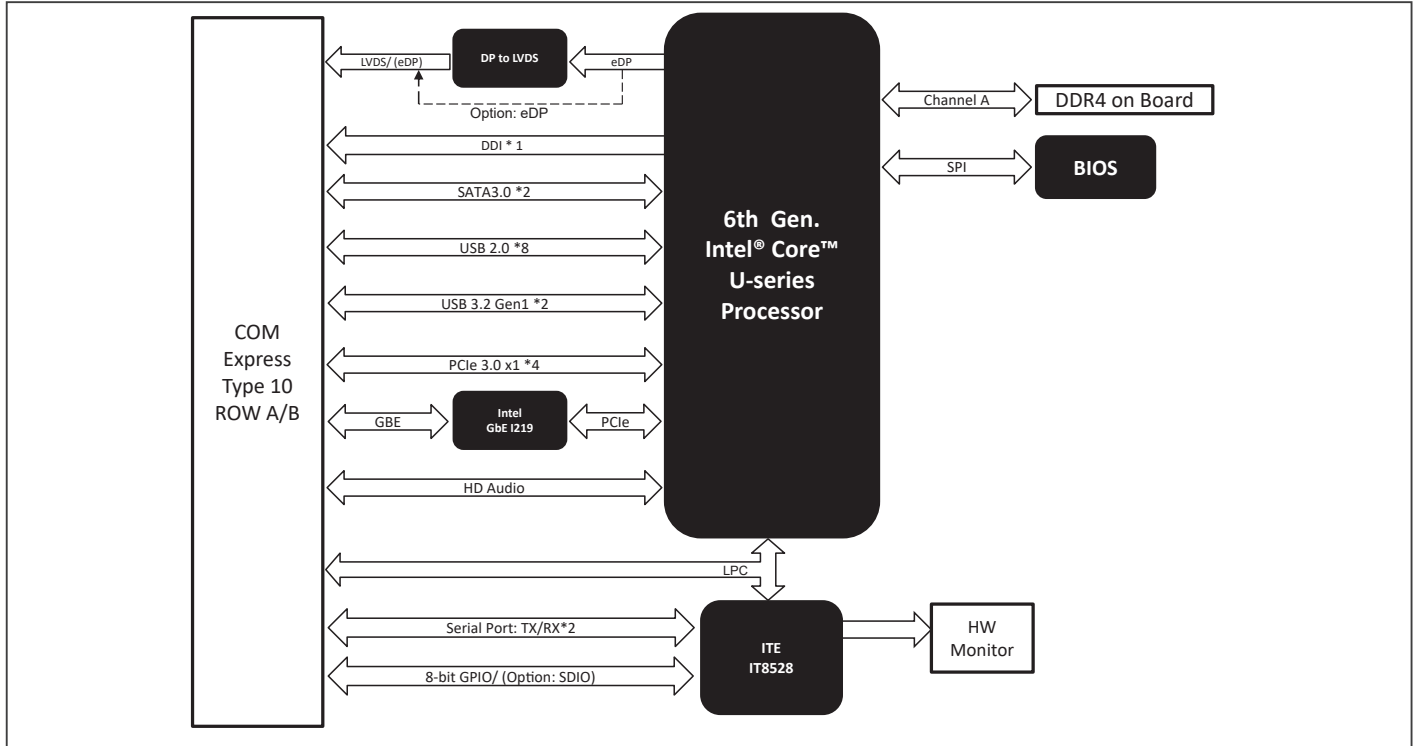
## Packing List

- NanoCOM-SKU

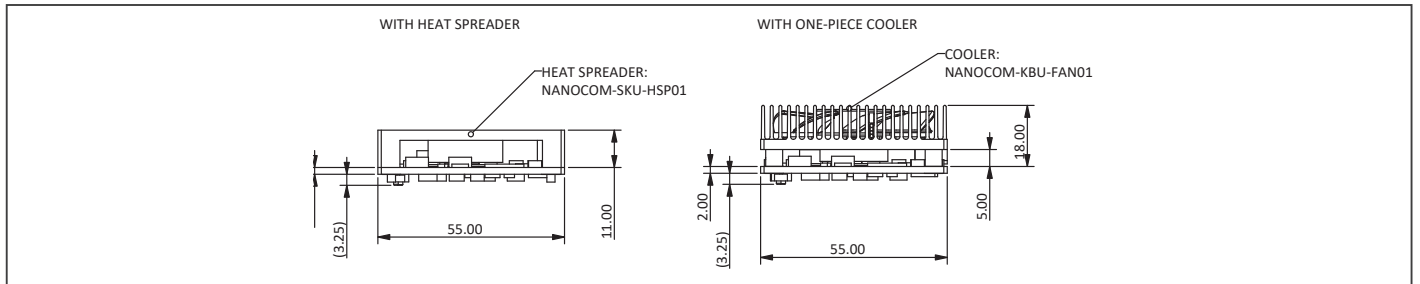
## Optional Accessories

| Part Number       | Description  |
|-------------------|--|
| ECB-920A-A11-0001 | COMe Type 6/10.Carrier Board.ATX.2.5GbE.8USB.2COM.4SATA.PCIe.AT/ATX. Rev. A1.1 |
| NanoCOM-SKU-HSP01 | Heat Spreader.84 x 55 x 11 mm.Black.   |
| NanoCOM-FAN02     | Cooler.84 x 53 x 22.2mm. Use w/HSP   |

## Block Diagram Unit: mm



## Dimension Unit: mm



## Ordering Information

| Part Number          | COM Express Type | CPU                   | Memory           | ECC support | Display           | Storage      | LAN                | USB                              | UART                    | Expansion         | Power | Temperature | Others                      |
|----------------------|------------------|-----------------------|------------------|-------------|-------------------|--------------|--------------------|----------------------------------|-------------------------|-------------------|-------|-------------|-----------------------------|
| NANOCOM-SKU-A10-0001 | Type 10          | Intel® Core™ i7-6600U | 4GB Onboard DDR4 | —           | LVDS x 1, DDI x 1 | SATA III x 2 | Intel® I219-LM x 1 | USB 3.2 Gen 1 x 2<br>USB 2.0 x 8 | 2-Wire UART x 2 (Tx/Rx) | PCIe 3.0 [x1] x 4 | 12V   | 0°C ~ 60°C  | LPC, GPIO 8-bit, I2C, SMBus |
| NANOCOM-SKU-A10-0002 | Type 10          | Intel® Core™ i5-6300U | 4GB Onboard DDR4 | —           | LVDS x 1, DDI x 1 | SATA III x 2 | Intel® I219-LM x 1 | USB 3.2 Gen 1 x 2<br>USB 2.0 x 8 | 2-Wire UART x 2 (Tx/Rx) | PCIe 3.0 [x1] x 4 | 12V   | 0°C ~ 60°C  | LPC, GPIO 8-bit, I2C, SMBus |
| NANOCOM-SKU-A10-0003 | Type 10          | Intel® Core™ i3-6100U | 4GB Onboard DDR4 | —           | LVDS x 1, DDI x 1 | SATA III x 2 | Intel® I219-LM x 1 | USB 3.2 Gen 1 x 2<br>USB 2.0 x 8 | 2-Wire UART x 2 (Tx/Rx) | PCIe 3.0 [x1] x 4 | 12V   | 0°C ~ 60°C  | LPC, GPIO 8-bit, I2C, SMBus |