

# CEM300 NEW

COM Express Type 10 Mini Module with Intel® Pentium® and Celeron® N3000 Series Processors

## Features

- Intel® Pentium® and Celeron® processors N3000 series (Braswell)
- Onboard DDR3L 4GB (8GB optional)
- Max. up to 4 lanes of PCIe
- 2 SATA-600
- 2 USB 3.0 and 8 USB 2.0
- LVDS and DDI (Displayport/HDMI/DVI) with dual view supported
- AXView 2.0 intelligent remote management software

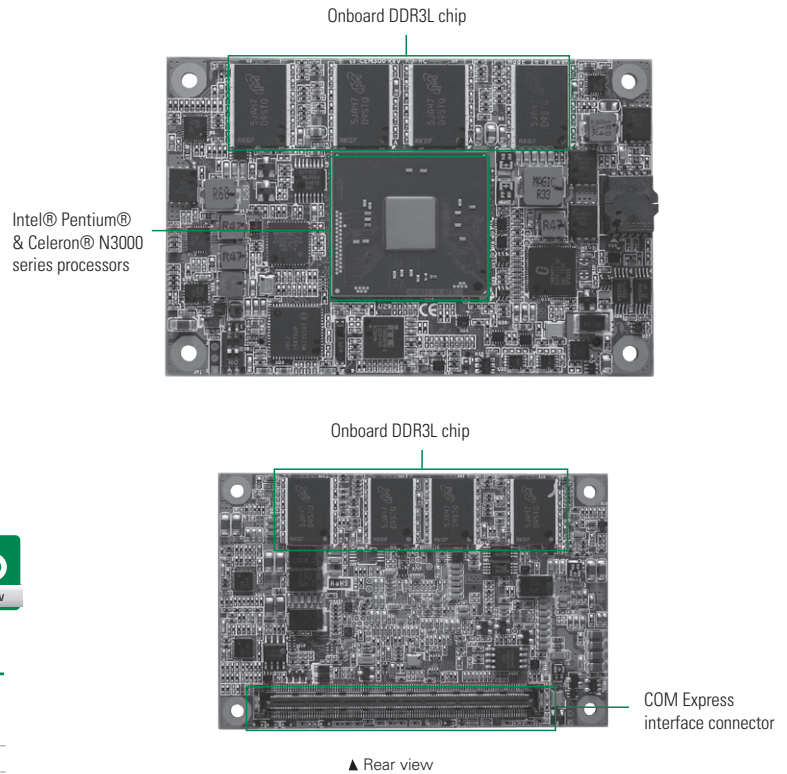


### Core System

|                     |                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------|
| CPU                 | Intel® Pentium® N3710 1.6 GHz quad core<br>Intel® Celeron® N3160 1.6 GHz quad core and N3060 1.6 GHz dual core onboard |
| System Memory       | 4GB DDR3L onboard memory (8GB optional)                                                                                |
| Chipset             | SoC integrated                                                                                                         |
| BIOS                | AMI uEFI (Legacy free)                                                                                                 |
| SSD                 | N/A                                                                                                                    |
| Watchdog Timer      | 65536 levels, 0 ~ 65535 sec.                                                                                           |
| Expansion Interface | 4 x PCIe lanes (3 lanes while internal LAN is connected)                                                               |
| Battery Lithium     | N/A                                                                                                                    |
| Power Input         | ATX: 4.75V ~ 20V, +5VSB<br>AT: 4.75V ~ 20V                                                                             |
| Size                | 84 x 55 mm                                                                                                             |
| Board Thickness     | 2.0 mm                                                                                                                 |
| Temperature         | 0°C ~ +60°C (+32°F ~ +140°F), operation                                                                                |
| Operation Humidity  | 10% ~ 95% relative humidity, non-condensing                                                                            |
| Vibration           | 3.5 Grms                                                                                                               |

### I/O

|                     |                                                                                  |
|---------------------|----------------------------------------------------------------------------------|
| MIO                 | 1 x LPC interface<br>1 x SPI interface<br>2 x Serial TX/RX                       |
| SATA                | 2 x SATA-600                                                                     |
| Hardware Monitoring | Yes                                                                              |
| Ethernet            | 1 port as 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i211AT |
| Audio               | HD link interface to baseboard for Codec                                         |
| USB                 | 2 x USB 3.0<br>8 x USB 2.0                                                       |
| TPM                 | N/A                                                                              |
| SMBus               | Yes                                                                              |
| Digital I/O         | 4 channels IN & 4 channels OUT                                                   |
| Smart Battery       | Yes                                                                              |



### Display

|                   |                                                                            |
|-------------------|----------------------------------------------------------------------------|
| Chipset           | Intel® Gen 8 Graphics Engine<br>Supports Gfx - DX11.1, OCL1.2, OGL 4.2     |
| Display Interface | 1 x DDI (DP, HDMI, DVI)<br>1 x LVDS; 18/24-bit single channel (eDP option) |

### Packing List

Quick installation guide

### Ordering Information

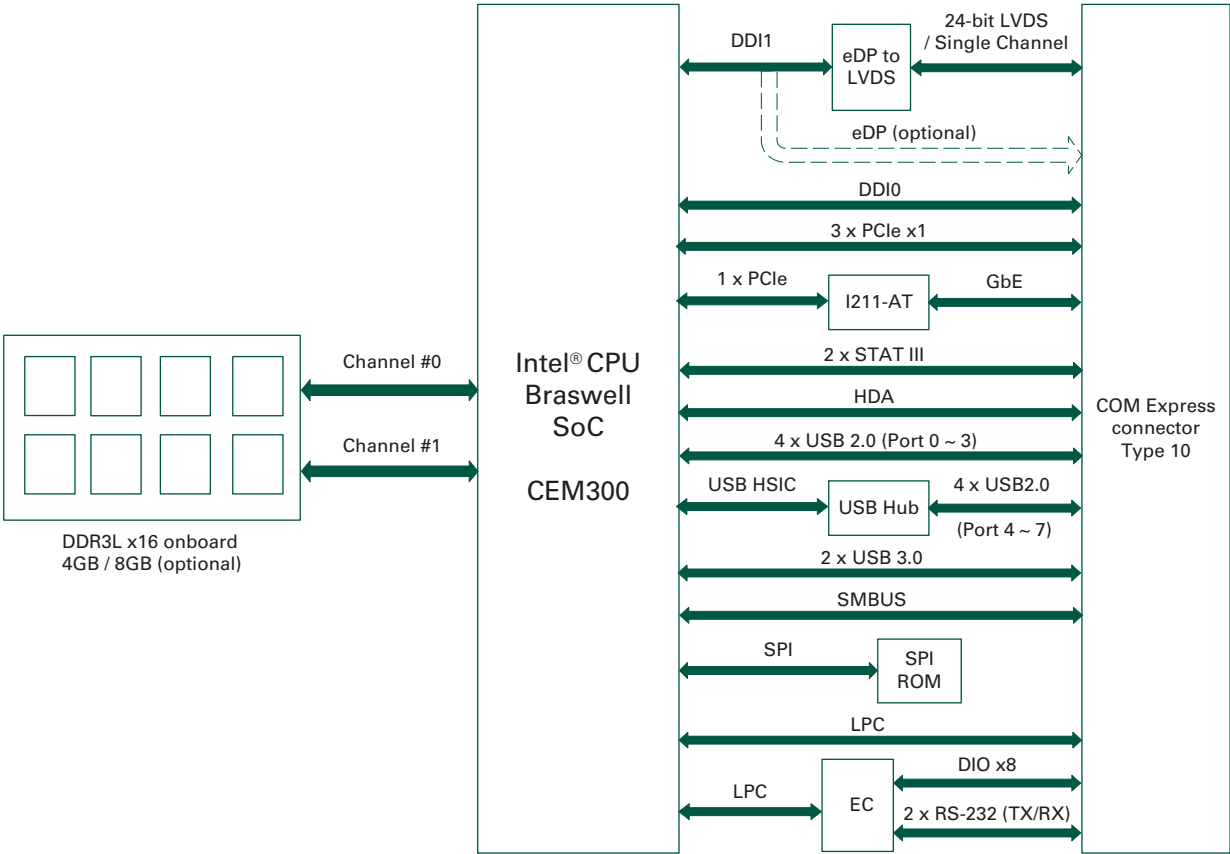
| Standard                               |                                                                                               |
|----------------------------------------|-----------------------------------------------------------------------------------------------|
| CEM300PG-N3710-4G<br>(P/N: E38D300100) | COM Express Type 10 mini module with Intel® Pentium® N3710, 4GB, DP/LVDS, USB 3.0 and GbE LAN |
| CEM300PG-N3160-4G<br>(P/N: E38D300102) | COM Express Type 10 mini module with Intel® Celeron® N3160, 4GB, DP/LVDS, USB 3.0 and GbE LAN |
| CEM300PG-N3060-4G<br>(P/N: E38D300104) | COM Express Type 10 mini module with Intel® Celeron® N3060, 4GB, DP/LVDS, USB 3.0 and GbE LAN |

#### Optional Accessories

|                               |                                          |
|-------------------------------|------------------------------------------|
| CEB94008<br>(P/N: E394008100) | ATX form factor Type 10 evaluation board |
| 5078D300100E                  | CEM300 heat spreader                     |
| 5078D840200E                  | heat sink with fan                       |

Note: 5078D840200E has to be with 5078D300100E

Block Diagram



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COM Express Type 6 Module

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