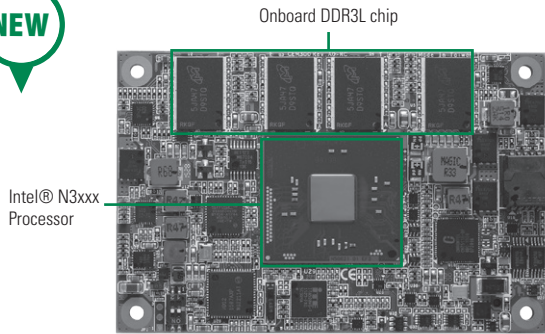


CEM300

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



System

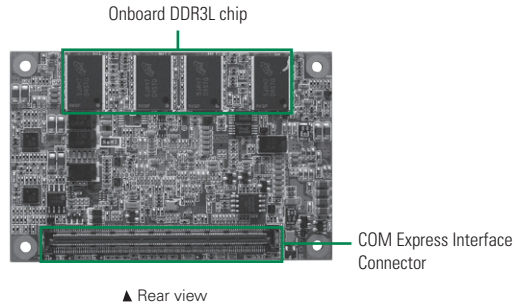
CPU	Intel® Pentium® and Celeron® N3000 series (Braswell) processors N3700 1.6 GHz quad core, N3150 1.6 GHz quad core and N3050 1.6 GHz dual core onboard
System Memory	On-board DDR3L chips up to 8 GB
Chipset	SoC integrated
BIOS	AMI uEFI
SSD	N/A
Watchdog Timer	255 levels, 1~255 sec. or min.
Expansion Interface	4 x PCIe x1 devices (3 x1 while internal LAN is connected)
Battery Lithium	N/A
Power Input	ATX: 4.75V~20V, +5VSB AT: 4.75V~20V
Size	84 x 55 mm
Board Thickness	2.0 mm
Temperature	-20°C ~ +70°C (-4°F ~ 158°F), operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing

I/O

MIO	1 x LPC interface 1 x SPI interface 2 x Serial TX/RX 1 x SMBus
SATA	2 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 port as 10/100/1000Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i211AT
Audio	HD link interface to baseboard for Codec
USB	2 x USB 3.0 and 7 x USB 2.0
TPM	N/A
SMBus	Yes
Digital I/O	4 channels IN & 4 channels OUT
Battery	Yes

Features

- Intel® Quad/ Dual core Pentium®/Celeron® processors (Braswell)
- Max. up to 8 GB DDR3L on-board memory
- Max. up to 4 lanes of PCI Express
- 2 SATA-600
- 2 USB 3.0 and 7 USB 2.0



Display

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

Packing List

Quick installation guide

Ordering Information

Standard	
CEM300PG-N3700-4G	COM Express Type 10 mini module with Intel® Pentium® N3700, 4 GB, DP/LVDS, USB 3.0 and 10/100/1000Mbps Ethernet
CEM300PG-N3150-4G	COM Express Type 10 mini module with Intel® Celeron® N3150, 4 GB, DP/LVDS, USB 3.0 and 10/100/1000Mbps Ethernet
CEM300PG-N3050-4G	COM Express Type 10 mini module with Intel® Celeron® N3050, 4 GB, DP/LVDS, USB 3.0 and 10/100/1000Mbps Ethernet

SBC Services and Solutions

2

Systems on Modules

Embedded SBCs >EPIC

Embedded SBCs >3.5" Capa

Embedded SBCs >Nano-ITX

Embedded SBCs >Pico-ITX

Embedded SBCs >PC/104

Industrial Motherboards

Slot CPU Cards

ARM Embedded Boards

Accessories

Appendix

