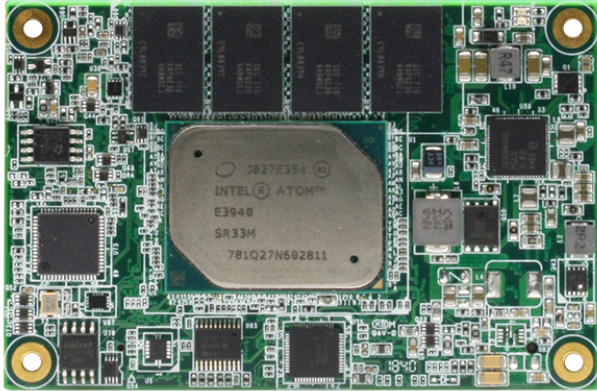


Computer on Modules for OEM/ODM

# ONYX NanoCOM-APL

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



## Features

- Intel® Atom™/Celeron®/Pentium® SoC
- Onboard Memory LPDDR4 4GB/8GB
- Intel® I210/I211
- Support eDP/LVDS, DDI D
- High Definition Audio Interface
- 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



## 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)
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	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
MFTB (Hours)	80,000
Certification	CE / FCC Class A

### Display

VGA / LCD Controller	Intel® HD Graphics 500 / 505
Video Output	LVDS LCD/eDP, DDI x 1
LVDS Interface	Support 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	—