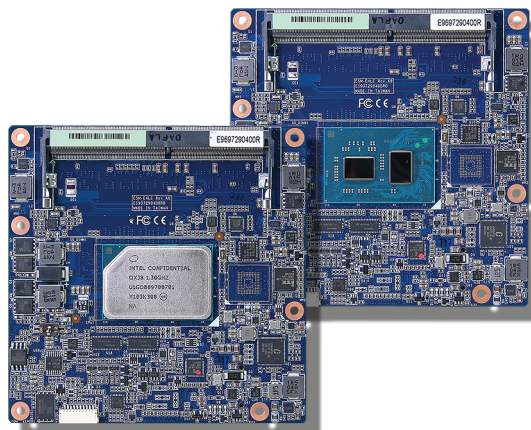


* This is an OEM Only Product

Coming Soon

Features

- Intel® Elkhart Lake Platform
- 2 x SODIMM DDR4 3200 SDRAM slots up to 32GB, support In-Band ECC memory protection
- Supports 3 independent display
- Display Port 1.4, HDMI 2.0b/1.4b, Dual Channel LVDS, VGA, optional eDP1.3
- Supports 2 x SATA (6.0GB/s), 8 x USB 2.0, 4 x USB 3.2 Gen2 x1, 3 PCIe x1 Gen3, 8-bit GPIO, optional eMMC
- 1 x 2.5GbE Ethernet via MaxLINEAR GPY215
- Time Sensitive Networking and Time Coordinated Computing for improved Realtime Capability
- 9~19V Wide Range Power Input
- Extreme Rugged Operating Temperature: -40°C to +85°C (Optional)
- Type 6 Rev 3.0 Pin-out



Specifications

System	
CPU	Onboard Intel® Celeron®/Atom™ SoC BGA Processor (Elkhart Lake Platform 6~12W)
System Memory	Two 260-pin SODIMM DDR4 3200 SDRAM slots support up to 32GB. Selected SKU supports in-Band ECC memory protection.
Audio	Intel® HD Audio integrated in SoC
Ethernet	LAN1: 1 x MXL GPY215B1VI/SLNC2 V0FN-56(7x7) SMD 2.5G Ethernet PHY (HF) with 10/100/1000/2500 Mbps
BIOS	AMI uEFI BIOS, 256 Mbit SPI Flash ROM
I/O Chip	EC ITE IT5571
Storage	eMMC 5.1 up to 128GB (Optional)
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec. and 1sec./step
H/W Status Monitor	Monitoring System Temperature, Voltage and FAN Status with Auto Throttling Control
TPM	TPM 2.0 (Optional, NuvoTon NPCT754AADYX SPI Interface E14S4075401H, wide temp version)
OS Support	Windows® 10 IOT Enterprise, Linux
Display	
Chipset	Intel® Elkhart Lake SoC Processor integrated Gen11 LP graphics
Resolution	HDMI 1.4b/2.0b: 4096x2160 @60Hz DP 1.4: 4096x2160 @60Hz eDP 1.3b(Optional): 4096x2160 @60Hz LVDS (via eDP-to-LVDS): 1920x1080 @60Hz, LVDS via CH7511B VGA (via DP-to-VGA): 1920x1080 @60Hz, VGA via CH7517A (DP to VGA)
Display Output	Supports 3 Independent Display

I/O	
PCI Express	3 x PCIe x1 Gen3 (8.0 GT/s)
UART	2 x UART
USB	8 x USB 2.0, 4 x USB 3.2 Gen2 x1 (10 Gbps)
SATA	2 x SATA 3.0 (6.0Gb/s)
SD	Share with GPIO, controlled by BIOS setting (Optional)
DIO	1 x 8-bit GPIO
MIO	1 x LPC, 1 x I2C, 1 x SPI, 1 x SMBus
Mechanical & Environment	
Power Requirement	+9~ +19V
ACPI	Single power ATX Support S0, S4, S5. ACPI 6.0a Compliant
Power Type	AT/ATX
Operating Temp	Commercial/Standard Temp: 0°C ~ 60°C (32°F ~ 140°F) Industrial/Extended Temp: -40°C ~ 85°C (-40°F ~ 185°F) (Optional, selected SKUs)
Storage Temp	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Form Factor	Compact COM Express Module
Dimensions	3.74" x 3.74" (95mm x 95mm)
Certification Information	CE FCC Class B

Ordering Info

ESM-EHLC Onboard Intel® Celeron®/Atom™ SoC BGA Processor (Elkhart Lake Platform). Please contact BCMSales@bcmcom.com for detail.

* All product specifications and images are subject to change without notice. Last update: 2021/06/24

