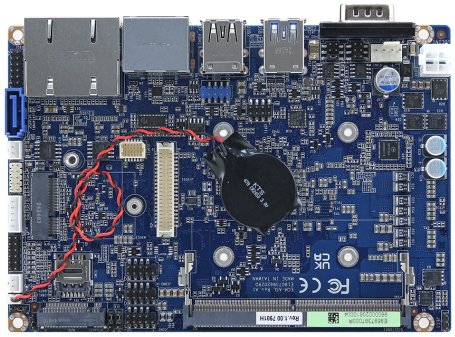
ECM-TWL

Intel® Processor N150, N250, & Intel® Core™ 3 Processor N355 3.5”Micro Module



Product Features

- Onboard Intel® Processor N150, N250, & Intel® Core™ 3 Processor N355
- Triple Display, DP 1.4a, HDMI 2.0b, 1 x 2CH LVDS/eDP
- Dual Expansion Slot, M.2 Key-B, M.2 Key-E
- Bottom Layer Soldered Processor
- Dual Intel® Gigabit Ethernet, 2.5GbE
- DC in +9V ~ +36V

Specification

System Information	
Processor	Onboard Intel® Processor N150, N250, & Intel® Core™ 3 Processor N355
System Memory	1 x 262-pin DDR5 4800MHz SO-DIMM socket, supports up to 16GB Max.
I/O Chipset	EC iTE IT5782VG
Watchdog Timer	H/W Reset, 1sec. ~ 65535sec and 1sec. or 1min./step
BIOS	AMI BIOS, 256Mbit SPI Flash ROM
H/W Status Monitor	CPU temperature monitoring Voltages monitoring CPU fan speed control
TPM	Onboard NuvoTon_NPCT760AABYX supports TPM 2.0
Board	3.5"

Expansion	
Expansion	1 x M.2 Key B slot for 3042/3052/2242 size(PCIe x1+USB 3.2 GEN1 + USB 2.0) standard package with 3042 to 3052 bracket + screw set 1 x M.2 Key E 2230 support WiFi 7E module (1 x PCI-e x1 & USB 2.0 Signal)

Storage

Storage	1 x M.2 (Key B) 1 x SATA III

Display

Graphic Chipset	Intel® UHD Graphics
Spec. & Resolution	HDMI 2.0b Max resolution 4096 x 2160@60Hz DP 1.4a Max resolution 4096 x 2160@60Hz LVDS 1920 x 1080 Dual channel 18/24-bits or eDP 1920 x 1080@60Hz (2 Lanes)
Multiple Display	Triple Display
LVDS	1 x LVDS: 1920 x 1080 Dual channel 18/24-bits LVDS

Audio

Audio Codec	Realtek ALC888S HD Audio Decoding Controller
Audio Interface	Line-in, Mic-in, Line-out

Ethernet

LAN Chipset	2 x Intel® I226V
Ethernet Interface	10/100/1000/2.5G Base-Tx GbE compatible
LAN Port	2 x RJ-45

Power Requirement

Power Mode	AT/ATX (Default Setting: AT)

Software Support

OS	Windows 11, Linux

Certification

Certification Information	CE, FCC, RoHS Compliant

I/O

USB	3 x USB 3.2 Gen2, 1 x USB 2.0 at IO 2 x USB2.0 by Pin header
COM Port	3 x RS-232 1 x RS-232/422/485
SATA	1 x SATA III
DIO	1 x 8-bit GPIO

MIO	1 x eSPI 1 x SIM Card Slot

Mechanical & Environmental

Operating Temp.	0°C ~ 60°C (-4~140°F) with 0.5m/s Air Flow
Storage Temp.	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	40°C @ 95% Relative Humidity, Non-condensing
Weight	0.44lbs (0.2kg)
Power Requirement	DC in +9V ~ +36V
Dimension (L x W)	5.7" x 4" (146mm x 101mm)

Ordering Information

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