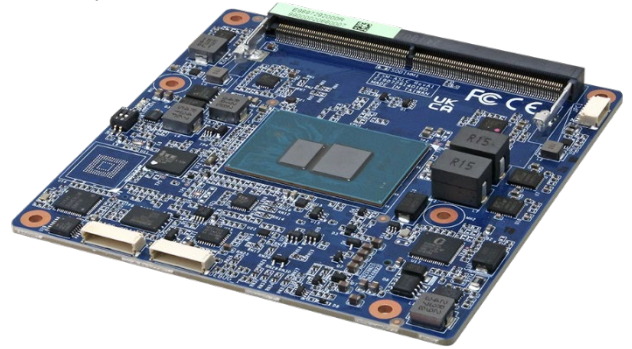




## ESM-TWLC

### Intel® Processor N150, N250, & Intel® Core™ 3 Processor N355 Type6 COMe Compact Module

- PICMG COM R3.1 Type 6 module with Processor N150, N250, & Intel® Core™ 3 Processor N355 by BOM optional
- 1 x 262-pin DDR5 4800MHz SO-DIMM socket, supports up to 16GB Max, support In-Band ECC memory protection (selected SKUs)
- 1 x Intel® i226V
- Intel® HD Audio Integrated in SOC
- Onboard TPM 2.0 Optional
- COMe Type 6 Compact Size: 3.74" x 3.74" (95 x 95 mm)
- DC in +9V ~ +19V



## Product Specification

### System information

- **Processor**

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-I-128/BX or Super IO Equivalent

- **Watchdog Timer**

H/W Reset, 1Sec. ~ 65535Sec. and 1Sec./Step

- **BIOS**

AMI uEFI BIOS, 256 Mbit SPI Flash ROM

- **H/W Status Monitor**

CPU temperature monitoring

Voltages monitoring

CPU fan speed control

- **TPM**

Onboard TPM 2.0 Optional



Singel 3 | B-2550 Kontich | Belgium | Tel.+32(0)3 458 30 33  
 info@alcom.be | www.alcom.be  
 Rivium 1e straat 52 | 2909 LE Capelle aan den Ussel | The Netherlands  
 Tel.+31(0)10 288 25 00 | info@alcom.nl | www.alcom.nl

## Expansion

- **Expansion**

4 x PCIe x1 (Gen3) or 1 x PCIe x4 (Gen3) or 2 x PCIe x1 (Gen3)

## Storage

- **Storage**

eMMC 5.1 Up to 128GB (Optional)

## Display

- **Graphic Chipset**

Intel® UHD Graphics

- **Spec. & Resolution**

HDMI 2.0b: 4096x2160 @60Hz

DP 1.4a: 4096x2160 @60Hz

LVDS (via eDP-to-LVDS): 1920x1080 @60Hz, LVDS via CH7511B or 1 x eDP 1.4b(By BOM  
Optional): 4096x2160 @60Hz

- **Multiple Display**

Triple Display Support

- **LVDS**

CH7511B-BF(eDP to LVDS)

- **DDI**

3 x DDI

DDI1: 2 CH LVDS (via eDP-to-LVDS) or eDP(By BOM Optional)

DDI2: DDI Signal

TCP0: DDI2 signal or Type C signal

## Audio

- **Audio Interface**

Intel® HD Audio Integrated on CPU

## Ethernet

- **LAN Chipset**

1 x Intel® i226V

- **Ethernet Interface**

10/100/1000/2500 Base-Tx GbE Compatible

## Software Support

- **OS**

Windows 11 64-bit, Linux

## Certification

- **Certification Information**

CE, FCC Class, RoHS Compliant

## I/O

- **USB**

8 x USB2.0, 2 x USB3.2 Gen 2x1 or  
8 x USB2.0, 4 x USB3.2 Gen 2x1 or  
8 x USB2.0, 4 x USB3.2 Gen 2x1

- **COM Port**

2 x UART (RX/TX Only)

- **SATA**

2 x SATA III or N/A

- **DIO**

1 x 8-bit GPIO

- **MIO**

1 x SMBus

1 x LPC

1 x eSPI (W-B 10Px1 1.0mm 90D for debug conn)

1 x I2C

1 x SPI

## Mechanical & Environmental

- **Operating Temp.**

Standard 0°C ~ 60°C (32°F ~ 140°F)

- **Storage Temp.**

-40°C ~ 75°C (-40°F ~ 167°F)

- **Operating Humidity**

40°C @ 95% Relative Humidity, Non-condensing

- **Weight**

0.16lbs (0.07kg)

- **Power Requirement**

+9V ~ +19V

- **Power Mode**

AT/ATX

- **Dimension (L x W)**

3.74" x 3.74" (95 x 95 mm)



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