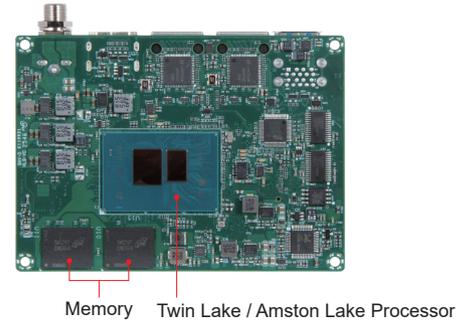
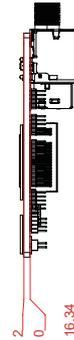
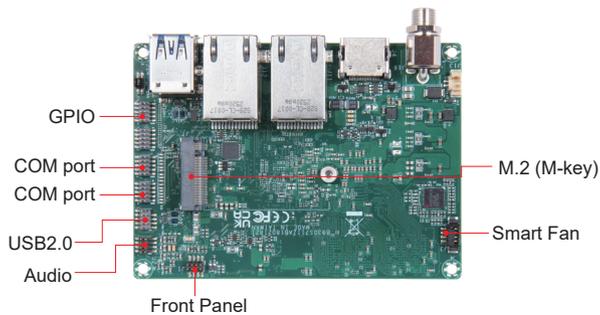


# PICO-8021

Intel® Twin Lake N150/Asmton Lake x7433RE/x7211RE; LPDDR5 up to 16GB; 1x M.2 2242 M-Key; 2x GbE, 2x USB 3.2, 1x HDMI® 1.4; 2x COM, GPIO, TPM 2.0; 12V DC



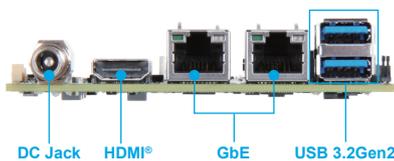
## FEATURES

- Support Twin Lake & Amston Lake SoC X7433RE/X7211RE
- 1x HDMI® 1.4 , 2x GbE, 2x USB 3.2
- LPDDR5 up to 16GB
- 1x M.2 2242 M-Key
- 2x COM, GPIO, TPM2.0, 12V DC Jack

## General

Processor	Intel® Processor N150 Intel Atom® x7433RE Processor Intel Atom® x7211RE Processor
BIOS	AMI uEFI BIOS
Memory	Support up to 8GB LPDDR5 4800 MT/s on board
Watchdog Timer	Programmable, time out period from 1 s to 255 s
Graphic Controller	Intel® Graphics

## REAR I/O



## Rear I/O

Ethernet	2 x Intel I210 with GbE LAN 10/100/1000 Mbps
USB	2 x USB 3.2 Gen2 Type A
Display	1 x HDMI® 1.4 3840 x 2160@30Hz

## Ordering Guide

AB1-3U51	(R).PICO-8021-N150. Intel Twin Lake SoC. w/LPDDR5/HDMI®/GbE/TPM/COM/USB/Audio
AB1-3T99	(R).PICO-8021-X7433RE. Intel Asmton Lake SoC. w/LPDDR5/HDMI®/GbE/TPM/COM/USB/Audio
AB1-3U67	(R).PICO-8021-X7211RE. Intel Asmton Lake SoC. w/LPDDR5/HDMI®/GbE/TPM/COM/USB/Audio

Thermal Kit	Part No.
A Heat spreader	B830D160
B Heat sink	B830D150
C Cooler	B9972450

## Expansion I/O

Audio	1 x Pin Header support Line-in , Line-out , Mic-in w/ Realtek ALC897
Serial Port	2 x Pin Header support RS-232
USB	2 x USB 2.0 Pin Header
M.2	1 x M.2 M Key 2242 support SATA, PCIe x1
Security	TPM 2.0 ( On Board IC )
GPIO	1 x 8-bit Digital I/Os

## Mechanical/Environment

Dimension	100 x 72 mm (3.9" x 2.8")
Power Supply	DC Jack 12V
Operating Temperature	0 ~ 60 °C (32.0 ~ 140.0 °F) ( N150 ) -40 ~ 85 °C (-40.0 ~ 185.0 °F) ( x7433RE ) -40 ~ 85 °C (-40.0 ~ 185.0 °F) ( x7211RE )
Storage Temperature	-40 ~ 85 °C (-40.0 ~ 185.0 °F)
Relative Humidity	5% to 95%, non-condensing
Certification	CE/FCC UKCA
OS	Windows 11 IoT Enterprise 2024 LTSC, Ubuntu 24.04
Portwell Special Feature	PET