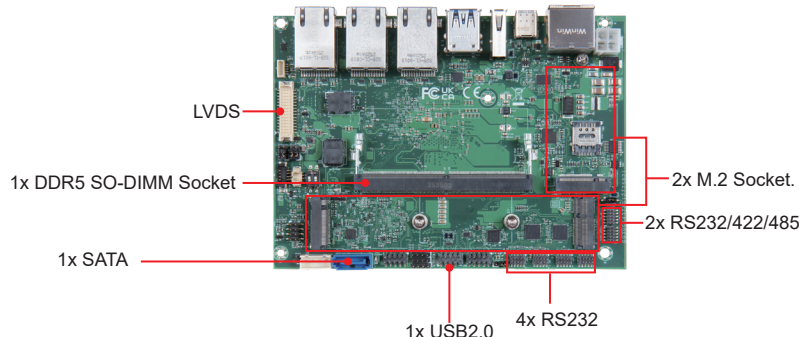
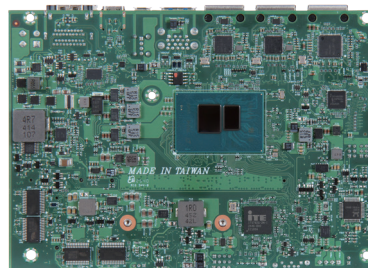


PEB-2775

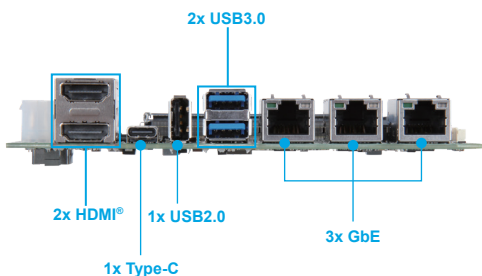
Intel® TWIN/Amston Lake Atom® Processor based 3.5" embedded Board with DDR5 SO-DIMM, Gigabit Ethernet, 3x M.2 sockets, 6x COM ports and 9~36V DC input



FEATURES

- Intel® Processor N355/N150 (Twin Lake), x7433RE (Amston Lake)
- Support Dual HDMI® & one Type-C & one LVDS display output
- 1x DDR5 SO-DIMM socket, 4800MT/s, up to 16GB
- Support three LAN ports(2x 2.5G & 1x GbE, OOB-remote power on/off/reset, BIOS recovery, Serial over LAN)
Support M.2 (M Key, B Key & E Key)
- Support TPM function and 9~36V DC in

REAR I/O



Ordering Guide

AB1-3T85	(R).PEB-2775-N150. 3.5". Intel® Twin Lake SoC.w/ DDR5 SO-DIMM/ dual HDMI®/ dual 2.5 GbE LAN and single 1GbE LAN/ M.2/ SIM card/ 9-36V
AB1-3T77	(R).PEB-2775-N355. 3.5". Intel® Twin Lake SoC.w/ DDR5 SO-DIMM/ dual HDMI®/ dual 2.5 GbE LAN and single 1GbE LAN/ M.2/ SIM card/ 9-36V
AB1-3T86	(R).PEB-2775-x7433RE. 3.5". Intel® Twin Lake SoC.w/ DDR5 SO-DIMM/ dual HDMI®/ dual 2.5 GbE LAN and single 1GbE LAN/ M.2/ SIM card/ 9-36V

PACKING LIST

General

Processor	- Intel® Core™ 3 Processor N355 - Intel® Processor N150 - Intel Atom® x7433RE Processor
BIOS	AMI uEFI BIOS
Memory	Support up to 16GB DDR5 4800 MT/s on SO-DIMM
Storage	1 x SATA Ports M.2
Watchdog Timer	Programmable, time out period from 1 s to 255s

Rear I/O

Ethernet	- 1 x w/ Intel® WGI210AT with 1 GbE Lan - 2 x w/ Intel® WGI226LM with 2.5 GbE LAN
USB	- 2 x Type A on Rear - 1 x Type A on Rear - 1 x Type C with DP Alt mode on Rear
Display	2 x HDMI® 2.0

Expansion I/O

Audio	1 x Pin Header support Line-in , Line-out , Mic-in w/ Realtek ALC897
Serial Port	- 4 x Pin Header support RS-232 - 2 x Pin Header support RS-232/422/485
USB	2 x USB 2.0 Pin Header
M.2	- 1 x M.2 E Key 2230 support USB, PCIe x1 - 1 x M.2 B Key 3042 3052 support USB, PCIe x1, 4G/5G - 1 x M.2 M Key 2280 support SATA, PCIe x1,
SIM	1 x Nano SIM slot
Security	TPM 2.0 (BOM Option)
Display	1 x LVDS
GPIO	1 x 8-bit Digital I/Os

Mechanical/Environment

Dimension	146 x 102 mm (5.75" x 4.02")
Power Supply	DC Jack 9~36V
Operating Temperature	- 0 ~ 60 °C (32.0 ~ 140.0 °F) (N355) - 0 ~ 60 °C (32.0 ~ 140.0 °F) (N150) - 40 ~ 85 °C (-40.0 ~ 185.0 °F) (x7433RE)
Storage Temperature	-40 ~ 85 °C (-40.0 ~ 185.0 °F)
Relative Humidity	5% to 95%, non-condensing
Certification	CE/FCC
OS	Ubuntu 24.04, Windows 10 IoT Enterprise 2022 LTSC
Portwell Special Feature	OOB API, PET