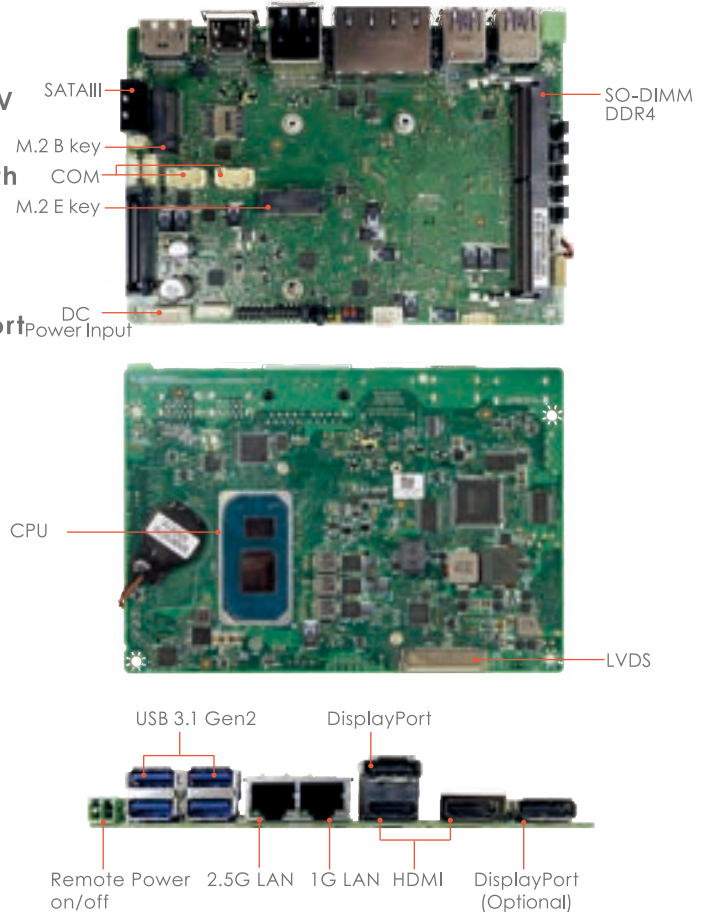


PD11TGS

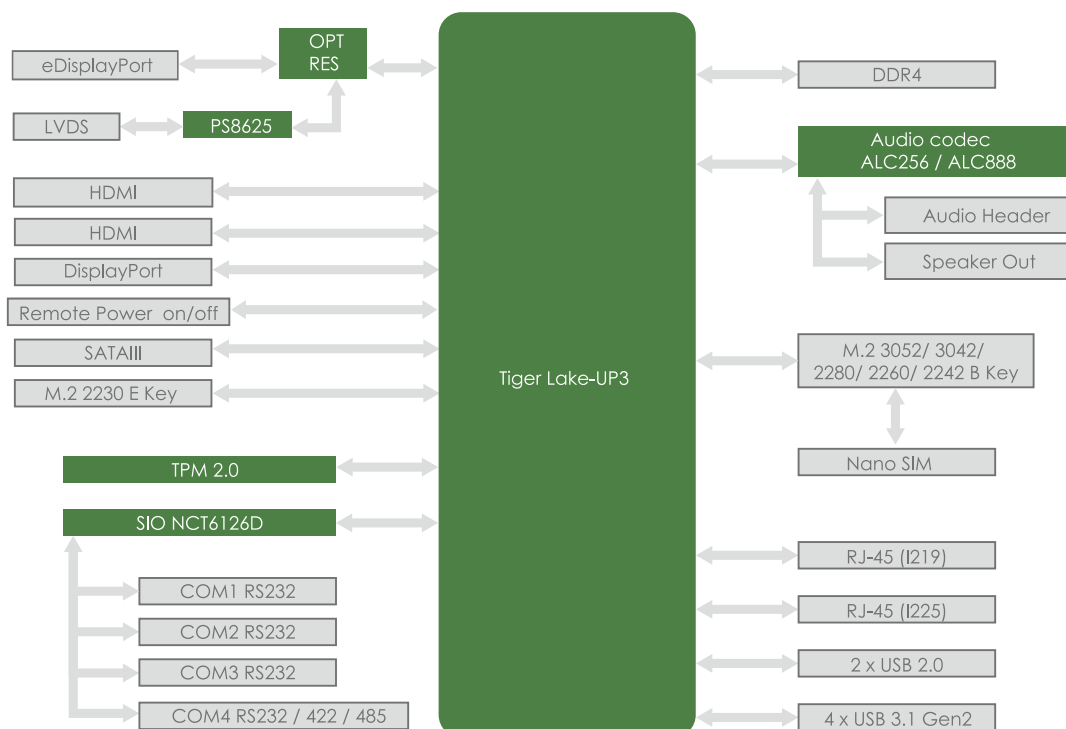
3.5" SBC Form Factor
Tiger Lake UP3 (Intel® Core™ and Celeron® TDP up to 28W)

Features

- Intel® Tiger Lake UP3 Core i7/i5/i3 / Celeron ULV processors
- Outstanding graphic computing capability with Integrated Intel® Iris Xe graphics
- Intel® vPro technology support (SKUs i5 & i7)
- 1 x DDR4 SO-DIMM and support up to 32GB
- Support quadruple display for HDMI, DisplayPort and LVDS / eDP
- 1 x SATA III
- 1 x Intel® 1G + 2.5G LAN port
- 2 x USB 2.0, 4 x USB 3.1 Gen2 and 4 x COM
- 8V~24V wide voltage power input



Block Diagram



PD11TGS 3.5" SBC

MECHANICAL	
Form Factor	3.5" SBC Embedded: 4" x 5.8" (102mm x 147mm)
SYSTEM	
Processor	11th Gen Intel® Tiger Lake-UP3 i3-1115G4E (Dual Core, 6MB Cache, up to 3.90 GHz) option: 11th Gen Tiger Lake-UP3 Celeron 6305E / i5-1145G7E / i7-1185G7E
Chipset	Intel® SoC Integrated
Memory	DDR4 3200MHz / 1 x 260-pin SO-DIMM / Max. 32GB (Non-ECC)
Graphics	Intel® Iris Xe Graphics
Ethernet	Intel® I219LM Giga LAN + I225LM 2.5G LAN
Audio	Realtek® ALC256 / ALC888
I/O Chipset	Nuvoton NCT6126D
TPM	Nuvoton NPCT750AABYX TPM2.0
Expansion Slot	Storage / LTE / 5G: M.2 2242 / 2260 / 2280 / 3042 / 3052 B Key (USB2.0/*PCIex1/SATAIII) Wireless: M.2 2230 E KEY (PCIe / USB) *Not support M.2 M Key NVMe SSD
BIOS	AMI BIOS
H / W Monitor	Temperature Monitor, Voltage Monitor, Fan Monitor
Watchdog Timer	1~255 Steps by Software Program
Smart Fan Control	CPU Fan
GRAPHICS	
HDMI 2.0b	Up to 4K (4096 x 2160) @60 Hz
HDMI 2.0b	Up to 4K (4096 x 2160) @60 Hz
DisplayPort 1.4	Up to 5120 x 3200 @60 Hz
LVDS	Up to 1920 x 1200 @60 Hz
eDP (Option)	Up to 5120 x 3200 @60 Hz
REAR I/O	
USB	4 x USB 3.1 Gen2
Display I/O	2 x HDMI 2.0b, 1 x DisplayPort 1.4
Audio I/O	—
LAN I/O	2 x RJ-45
Serial Port	—
PS/2 Port	—
Others	1 x 2-pin Remote Power ON/OFF Terminal Block Connector
INTERNAL CONNECTORS	
Storage	1 x SATAIII
USB	2 x USB2.0
Display I/O	1 x LVDS (colay eDP) 1 x Backlight Connector
Audio I/O	1 x Audio Header Supporting System Stereo Speaker 1 x Audio Header (Front Panel Mic-in & Line-out)
Serial Port	4 x RS232 (One Supports RS232/422/485)
PS/2 Port	—
Parallel Port	—
GPIO	—
Fan	1 x 4-pin CPU Fan Header
Power	1 x 8~24V 4-pin Power Connector, 1 x AT/ATX Mode Select Jumper
Others	1 x Front IO Header (PWR ON/RESET/PWR LED/HDD LED) 1 x Nano SIM slot, 1 x Buzzer
POWER REQUIREMENT	
Power Input	8~24V Wide Range DC Input w/ 4-pin Power Header (Pitch: 2.5mm)
ENVIRONMENTAL	
Operating Temperature	15W TDP: -40 ~ 60°C (-40 ~ 140°F) 28W TDP: -40 ~ 50°C (-40 ~ 122°F) with 0.7m/s Air Flow and Wide Temperature Memory/Storage
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10% ~ 95% R/H, non-condensing
Certification	CE & FCC Class B
OS	
OS Support	Windows® 10 64bit/Windows® 11 64bit, Linux (support by request)

Ordering Information

Model Number	Processor	HS Configuration	Model Number	Processor	HS Configuration
PD11TGS-6305E-HSK	Celeron 6305E	MB + Heatsink	PD11TGS-1145G7E-HSK	i5-1145G7E	MB + Heatsink
PD11TGS-1115G4E-HSK	i3-1115G4E	MB + Heatsink	PD11TGS-1185G7E-HSK	i7-1185G7E	MB + Heatsink

*5G card support is by BOM option. Please check with sales about the M.2 B Key 3052 5G card spec if you have any request

*Option 1 / 2 : eDP / with 2nd DP without LVDS/eDP,

Packing List

Packing		
• 1 x Motherboard	• 1 x 50cm SATA Cable	• 1 x 45cm SATA Power Cable