TAURO TECHNOLOGIES

TT711 Ultra-compact Fanless PC

For Robotics and Edge AI Applications

Key Features

- Intel® Panther Lake CPU
- Up to 128GB DDR5
- Advanced AI Performance
- 2x 2.5GbE
- Wi-Fi/BT/4G/5G Expansion
- Rugged Design

Applications

- Robotics
- Ground Vehicles
- Avionics / UAV
- Tactical Edge
- Agriculture

Overview

TT711 Ultra-compact Fanless PC is a next-generation Edge/IoT platform designed for AI, industrial, and real-time video applications. Powered by Intel® Core™ Ultra Series 3 (Panther Lake) processors, it delivers up to 180 platform TOPS for Edge AI workloads.

The system provides access to a range of interfaces: quad USB 3.2 ports, DisplayPort 2.1, HDMI, and digital I/O via a bidirectional GPIO buffer. For networking, the TT711 integrates dual 2.5GbE ports for high-speed industrial and edge connectivity. Expansion flexibility is provided via PCIe Gen4 x4 lanes for M.2 M-Key NVMe storage and PCIe Gen4 x2 lanes for M.2 E-Key Wi-Fi/Bluetooth module. Additional features include dual-channel DDR5-7200 SO-DIMM memory, TPM, console access through debug interfaces, and a wide-range 12V–36V DC power input.

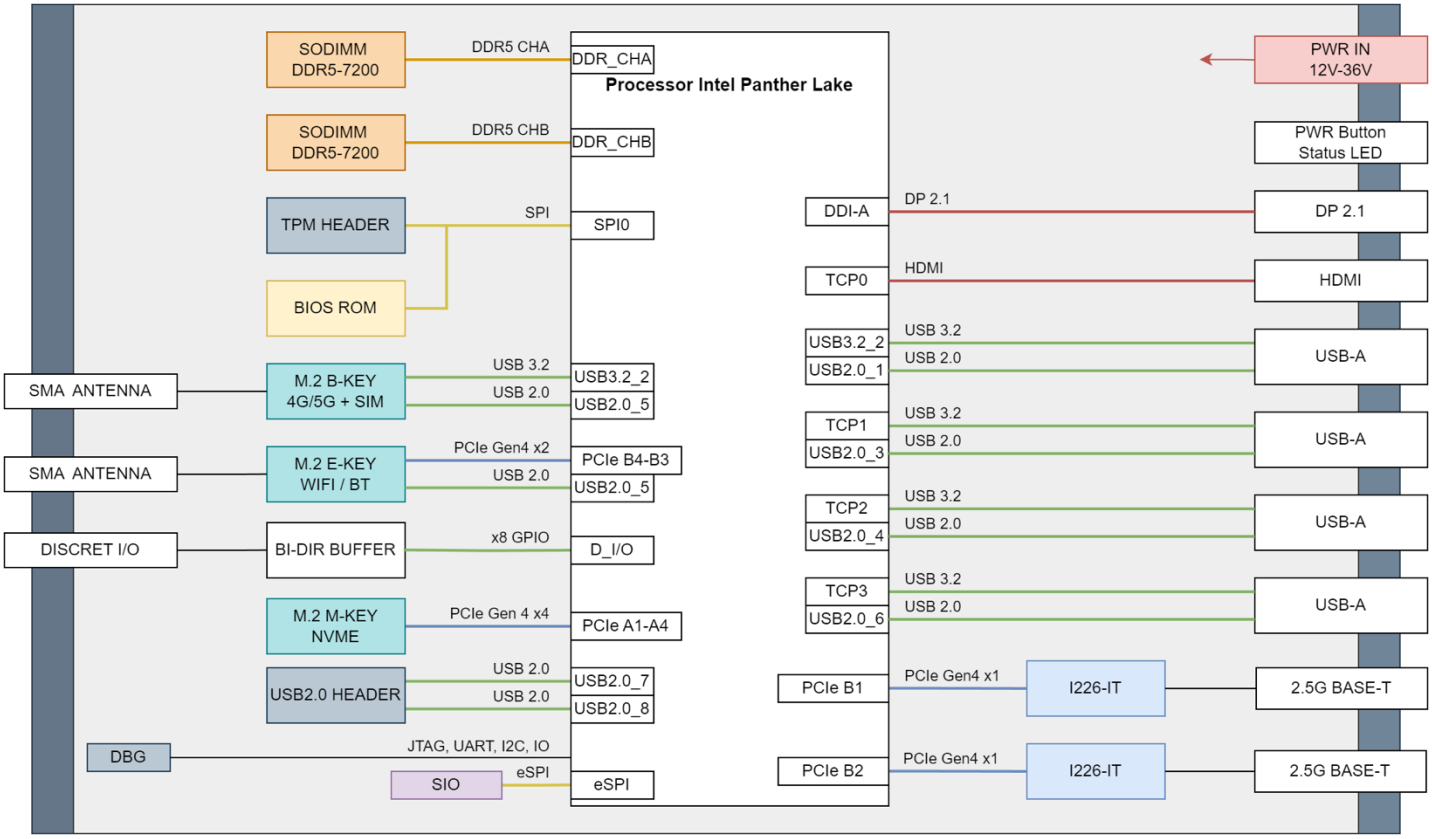
Compact and rugged, the TT711 Ultra-compact Fanless PC is an all-in-one solution for edge AI, robotics, and in-vehicle systems, combining high-speed networking, modular expansion capabilities, high reliability, flexible connectivity, and robust performance to tackle the most challenging environments.

Key Advantages

- Intel® Core™ Ultra Series 3 (Panther Lake) processor with up to 180 platform TOPS
- Up to 128GB DDR5 memory
- Compact Industrial-grade design
- 4K display support & high-speed connectivity
- M.2 Slots for LTE/5G/Wi-Fi and storage



Block Diagram



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Specifications

SOC	Intel® Core™ Ultra (Panther Lake) CPU up to 180 platform TOPS
NPU	Intel® AI Boost NPU 5.0
GPU	Intel® ARC Graphics GFX Xe3 Architecture
SYSTEM MEMORY	Dual Channel DDR5 7200MHz SO-DIMM, up to 128GB
DISPLAY INTERFACE	DisplayPort 2.1, HDMI
ETHERNET	2x 2.5GbE
MISC I/O	Digital IO with 8x GPIO
	4x USB 3.2
	Debug Headers (JTAG, UART, I2C, USB2.0)
EXPANSION	USB 3.2 M.2 PCIe Slot B-key (for 4G/5G)
	PCIe Gen4 x4 M.2 Slot M-Key (for NVMe SSD)
	PCIe Gen4 x2 M.2 Slot E-Key (for WIFI/BT)
OS SUPPORT	Linux, Windows
POWER	12V to 36V DC input
	Maximum 230W total power budget
DIMENSION	176 mm (W) x 190 mm (D) x 70mm (H) (without mounting brackets)

Environmental

OPERATING TEMPERATURE	-25°C to 60°C
STORAGE TEMPERATURE	-40°C to 85°C
HUMIDITY	10% to 90%, non-condensing
VIBRATION	Operating, MIL-STD-810H, Method 514.8, Category 4
SHOCK	Operating, MIL-STD-810H, Method 516.8, Procedure I
EMC	Designed to meet FCC, CE, and UL certifications, where applicable

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Ordering Options

TT711-ABC-D00-000		
A = CPU	D = M.2 E-KEY [J32]	
0 = RESERVED 1 = PANTHER LAKE-H 484 12XE	0 = RESERVED	
B = M.2 M-KEY [J1]		
0 = RESERVED		
C = M.2 B-KEY [J14]		
0 = RESERVED		

The system can be customized for specific customer requirements, contact Tauro Technologies sales for details.

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