

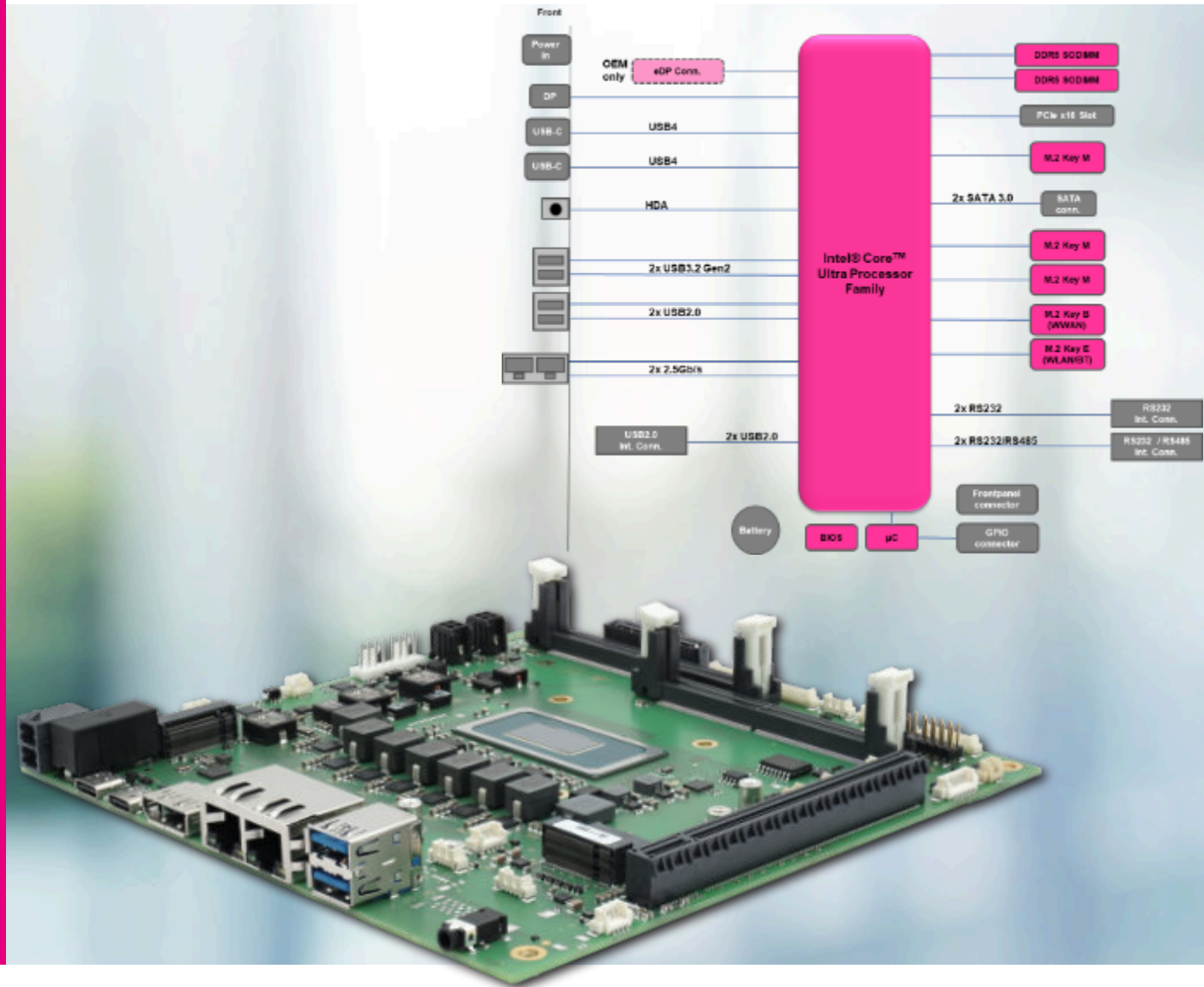
PROFIVE® MIME



APPLICATIONS

The **PROFIVE® MIME** mainboard is optimal adapted for:

- _ AI Edge Server
- _ Medical Solutions
 - Intel® performance, high-resolution graphics
- _ Automation Control
 - scalable, flexible expansion
- _ Measurement
 - Multiple graphics
- _ Public Terminal
 - Digital Signage, Multiple Displays support
- _ Mobile Solutions
 - optimized for automotive power input, small form factor



HIGH QUALITY
MADE IN GERMANY



E.E.P.D. 
...just embedded!

PRELIMINARY

Mini-ITX 170x170

Specification	
CPU / SoC / APU	Intel®Core Ultra processor family max. 65 W supported Intel® Graphics, Intel® ARC® Graphics (depends on installed processor)
BIOS	UEFI
Max. memory	Up to 2x 48 GB dual channel DDR5-5600 SO-DIMM memory, In-Band ECC if supported by CPU
Ethernet ports	Up to 2x Intel® I226-V with 2,5 Gbit/s with IEEE1588, TSN-support, Wake-On-Lan supported by one port
M.2 socket	up to 3x Key M, 2280, PCIe Gen4 x4 NVMe 1x Key B, 3042/3052, PCIe Gen4, x2, USB 2.0, e.g. WWAN, eSIM only 1x Key E, 2230, PCIe Gen4, 1x x2 or 2x x1, USB 2.0, e.g. WLAN/Bluetooth, no Wake-on-WLAN support
I/O´s	2x GPIO (3.3 V), SPI and I²C (OEM only)
Serial ATA	Up to 2x (6G) with separate power connector each (5 V / max. 2500 mA, 12 V / max. 1 A / non-fused)
Display Output	1x Display Port++, up to 7680 x 4320 @ 60 Hz 2x USB-C Alt Mode, up to 7680 x 4320 @ 60 Hz
PCIe Socket	1x PCIe Gen5, x16 slot. (max. 10 W)
USB-A port	2x USB 3.2 Gen2 (10 Gb/s, OCP = 1500 mA each) 2x USB 2.0 (480 MB/s, OCP = 1500 mA each)
USB-C port	2x USB4 Gen3x2 (40 Gb/s, OCP = 3000 mA) or USB-C Alt Mode
USB internal	2x internal USB 2.0 (480 Mb/s, OCP = 900 mA each) on Molex (PicoBlade)
Serial port	2x RS-232 (HDX/FDX) 2x RS-232/485 (HDX/FDX) (OEM only) on Molex (PicoBlade)
Audio	High Definition Audio Codec with MIC in / Headphone out at a 3.5 mm Audio Jack / SPDIF in / SPDIF out at an internal Molex connector
fTPM / TPM	Intel® PTT (Firmware TPM) TPM 2.0 support (Infineon SLB 9670)
Status / Control LEDs	Power and status LEDs
Hardware Monitoring and Management	Controllable FAN (PWM and Tacho); Temperature Sensor, Power Supply Voltage Monitoring, Watchdog
Other	Front Panel Connector, Feature Connector
Power supply	Min. 15 V / Max. 26.4 V (DC); Min. 120 W / Recommended 150 W, fused to: 10 A Power Connector: 2 pin Molex Mega-Fit Connector
Max. operating temp.	0 °C to +60 °C ambient commercial grade; Adequate cooling provided; Depending on variant and on the cooling system, CPU throttling may occur at higher ambient temperatures
Storage temp.	-40 °C to +85 °C, non-condensing
Max. relative humidity	95% @ 40 °C, non-condensing while stored 89% while working
Cooling	2x standard 4 pin Fan-Connectors, 12 V / max. 200 mA each (non-fused)
Size approx.	170 mm x 170 mm
OS support	Microsoft® Windows® 11 Microsoft® Windows® 10 & 10 IoT Enterprise Linux Ubuntu 22.04 LTS

Available CPU types
Intel® Core Ultra 9 185H 16C 22T 2.3 GHz - 5.1 GHz (P-core) 1.8 GHz - 3.8 GHz (E-core) 35W - 65W
Intel® Core Ultra 7 165H 16C 22T 1.4 GHz - 5.0 GHz (P-core) 0.9 GHz - 3.8 GHz (E-core) 20W - 65W
Intel® Core Ultra 7 155H 16C 22T 1.4 GHz - 4.8 GHz (P-core) 0.9 GHz - 3.8 GHz (E-core) 20W - 65W
Intel® Core Ultra 5 135H 14C 18T 1.7 GHz - 4.6 GHz (P-core) 1.2 GHz - 3.6 GHz (E-core) 20W - 65W
Intel® Core Ultra 5 125H 14C 18T 1.7 GHz - 4.5 GHz (P-core) 1.2 GHz - 3.6 GHz (E-core) 20W - 65W
Intel® Core Ultra 7 165U 12C 14T 1.7 GHz - 4.9 GHz (P-core) 1.2 GHz - 3.8 GHz (E-core) 12W - 28W
Intel® Core Ultra 7 155U 12C 14T 1.7 GHz - 4.8 GHz (P-core) 1.2 GHz - 3.8 GHz (E-core) 12W - 28W
Intel® Core Ultra 5 135U 12C 14T 1.6 GHz - 4.4 GHz (P-core) 1.1 GHz - 3.6 GHz (E-core) 12W - 28W
Intel® Core Ultra 5 125U 12C 14T 1.3 GHz - 4.3 GHz (P-core) 0.8 GHz - 3.6 GHz (E-core) 12W - 28W
Intel® Core Ultra 5 115U 8C 10T 1.5 GHz - 4.2 GHz (P-core) 1.0 GHz - 3.5 GHz (E-core) 12W - 28W

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