



faytech responds to the demand of more and more powerful systems by using fay-002 Intel® E3800 series mainboard. The fay-002 series follows the highest industrial PC standards and provides stable performance. Powered by Intel® Dualcore N2807 and Quadcore J1900 processors based on Silvermont architecture, they deliver respectively 2 x 1.58 GHz and 4 x 2 GHz CPU frequency, which significantly improve the performance of touch PCs. Additionally, the Intel® graphic chip adds stronger graphic performance. On top of that, all of these components are compacted in a fanless design!

With USB 3.0 and the support of up to 8G RAM, faytech's mainboards set new standards in questions of versatility again. Fanless, with such a small footprint, there is no other IPC mainboard on the market offering so many connectors: 2 x Mini-PCIe, 1x PCIe, SPDIF, Mic-in-/Line-out, 2 x 2w amplifiers, 2 x Realtek PCIe Gb LAN 8111G, 7 x USB 2.0, etc. There should be no industrial application where the faytech mainboard is not competent.

Take your time and design your own product around the fay-002 mainboard series - it will be available in production until 2021!



<b>Product name</b>	FAY002 N2807
<b>Article code / EAN number</b>	FTN2807 / 6920734094257
<b>Mainboard Specifications</b>	
Fanless, no moving parts	•
CPU	Intel® Celeron DualCore Processor N2807
CPU-clockspeed / Turbo Speed	1.58 GHz / 2.16 GHz
Tjunction CPU (°C)	105
Chipset	Intel® E3800 Silvermont architecture
BIOS	64Mb Flash ROM, UEFI AMI BIOS, PnP, DMI 2.0, Wfm 2.0, SM BIOS, ACPI 3.06
TPM	1x Infineon SLB9635 TT 1.2
Watchdog Timer (1~255 steps by software program)	•
Wake On LAN/PCE	• (WOL, PXE)
Graphic	Intel HD graphics; DirectX 11.1, OpenGL 4.0
Graphics Base Frequency	313 MHz
Graphics Max. Dynamic Frequency	750 MHz
External maximum showable resolution - DP, VGA	1920x1200 @ 60Hz
Audio-Chip	Realtek 887 8channel high definition audio codec, Audio Amplifier EUA 2012A
5.1 Channel High Definition Audio Codec	•
Network	2 x Realtek PCIe Gb LAN 8111G
Power consumption PC-Part (W):	5
Standard working power (V):	12
Operating temperature (°C):	-10 ~ +60
Humidity range (RH)	20%-90%
PASSMARK CPU-Benchmark	919
Net weight mainboard (g):	180
Dimensions (cm) L x W:	EPIC-form factor: 16.5 x 11.5
Drivers	Win7, Win8, Win10; Linux; 32Bit/64Bit
<b>Included in delivery</b>	
Driver-DVD	•
Short Installation Manual	•
Standard Guarantee	2 years bring-in

Internal Connectors
1x SO-DIMM Slot, max. 4GB, DDR3L-1333 Single channel memory
1x 12V DC power connector (2-pin)
1x 4-pin SATA power connector
2x S-ATA 3GB/s ports
1x VGA pin header
1x DP-Pin-Header
1x LVDS connector
1x 5-pin LCD power connector
1x S/PDIF output pin header
1x Line-Out / Mic-In audio pin header
1x 4-pin (2x2W) audio amplifier connector
1x PS/2 keyboard/mouse connector (6-pin)
2x USB 2.0 header supports additional 4x USB 2.0 ports
2x RS232 connectors
1x 8-bit Digital I/O interface
1x Chassis Fan connector

External Connectors
1x Display port
1x USB 3.0, 3x USB 2.0 ports
1x COM port Full-PIN (RS232; 5V/12V)
2x 10/100/1000Mbit RJ45 Ports

Expansion slots
2x Mini Card slots with PCIe and USB interface (2 x Full Height/Half height changeable)

## Corporate Headquarters

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