fay-002 J1900 Mainboard

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.

Product name	FAY002 J1900
Article code / EAN number	FTJ1900 / 6920734094240
Mainboard Specifications	
Fanless, no moving parts	•
CPU	Intel® Celeron™ QuadCore Processor J1900
CPU-clockspeed / Turbo Speed	2.0 GHz / 2.42 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	688 MHz
Graphics Max. Dynamic Frequency	854 MHz
External maximum showable resolution - DP, VGA	1920×1200 @ 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):	10
Standard working power (V):	12
Operating temperature (°C):	-10 ~ +60
Humidity range (RH)	20%-90%
PASSMARK CPU-Benchmark	1887
Net weight mainboard (g):	180
Dimensions (cm) L x W:	EPIC-form factor: 16.5 x 11.5
Driver	Win7, Win8, Win10; Linux; 32Bit/64Bit
Included in delivery	
Driver-DVD	●
Short Installation Manual	●
Standard Guarantee	2 years bring-in

Internal Connectors
1x SO-DIMM Slot, max. 8GB, 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 SIM-card-Header (connected to MiniPCIe)
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
3x RS232/RS485 COM connectors, switchable between RS232/RS485 in BIOS
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)
2× 10/100/1000Mbit RJ45 Ports

Expansion slots
2x Mini Card slots with PCIe and USB interface (2 x Full Height/Half height changeable)
1x PCIeX1 Straddle connector

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