



faytech responds to the demand of more and more powerful systems by unveiling its new fay-002 Intel® E3800 series mainboard. The new fay-002 series follows highest industrial PC standards and provides stable and exceptional performance. Equipped with Intel™ Dualcore N2807 or Quadcore J1900 Processors based on Intel's Silvermont™ architecture, they deliver respectively 2x 1.58 GHz and 4x 2GHz base speed which significantly improves the performance of any new Touch PC provided with them. The new Intel HD graphics chip with LVDS, Displayport and VGA-Out adds further strong graphic performance, all in a fanless design!

With USB 3.0 support and the support of up to 8GByte RAM the new fay-002 sets standards in versatility once again. Fanless, with such a small footprint, there is no other industrial PC-mainboard in the market offering so many connectors and options: 2x Mini-PCIe, 1x PCIeX1, SPDIF, Mic-In/Line-Out, 2x2W amplifier, 2x GBit LAN, 7x USB 2.0, 3x RS232 for N2807 or 4x RS232/RS485 for J1900, PS2-Port, 2x S-ATA – in short – there should be no industrial application where this mainboard shall not be suitable for.

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



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	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 mainboard working power (V):	12
Mainboard 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 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)
1x 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 VGA-out (from internal header)
1x USB 3.0, 3x USB 2.0 ports
2x COM port Full-PIN (RS232/485; 5V/12V)
2x COM port 3-PIN (RX, TX, GND; RS232/485 switchable)
2x 10/100/1000Mbit RJ45 Ports
S/PDIF-Out (1x Cinch, 1x Torx)
MIC-In, EAR-Out
8x In/Out GPIO as RJ45
1x 12V DC-In (screwable)
1x On/Off-button
2x W-LAN connector
1x 2.5" module slot, changeable SSD included

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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