

Embedded V40 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 highest industrial PC standards and provides stable performance. Powered by Intel® Dualcore N2807 or 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 equipped with them. The Intel® graphic chip adds stronger graphic performance. On top of that, these are compacted in a fanless design!

In addition to high performance/price ratio comes with fay-002 mainboards, our new fay-003 mainboard is our solution to tasks with higher demands. Powered by Intel® i5-5200u CPU, it provides 2 x 2.2 GHz frequency, 2.7 GHz when overclock, which is currently our most powerful mainboard.

With USB 3.0 and the support of up to 8G RAM, faytech's mainboard sets standards in 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 faytech mainboard is not competent for!



Product name	Embedded Allwinner V40 Mainboard
Article code	FTV40XGYGWBG
Code explanation (after FTA20)	
XG	1G or 2G RAM, 1G Standard
YG	4G to 16G Flash, 8G Standard
W	bgn-WLAN-adapator
B	Bluetooth 4.0 adaptor, optional
G	GPS-module, optional
Mainboard Specifications	
Fanless, no moving parts	•
CPU	Allwinner V40 Cortex™- A7-QuadCore
CPU-Cores	4x
CPU-clockspeed;Turbo Speed	1GHz;
Chipset	Cortex A7
Max. TDP (W)	8
Memory (Standard)	1G DDR3 RAM, 8G EMMC Flash
Graphics	ARM® Mali400 Mp2 Complies with OpenGL ES 2.0/1.1
Graphics Base Frequency	500 MHz
Maximum showable resolution (TPCs: external):	1920×1080 @ 60Hz
Audio-Chip	Integrated HI-FI 100dB Audio Codec Dual analog mic, 2x6W amplifier
5.1 Channel High Definition Audio Codec	•
Network	10M/100M/1000M Network, W-LAN
Operating temperature (°C) mainboard:	-25 ~ +75
Humidity range (RH) mainboard:	10% - 90% RH
Working power (V):	8-18
Driver/OS-Images/BSPs:	Android 4.4, Android 6.0, Linux

Internal Connectors
1x SD-card
1x SIM-card
3x Serial
4x TTL UART
4x USB 2.0
1x USB OTG (external for Touch PCs)
1x Audio-In, Audio-Out (external for Touch PCs)
18/24Bit LVDS
12x GPIO
1x Line-In
1x Line-Out
1x Amplifier for 2x 6W loudspeaker
1x SATA-Port
RTC

External Connectors
8-18V DC-IN, screwable
2x USB 2.0
1x USB OTG
1x Serial
1x10/100/1000Mbit RJ45 Ports with connector for POE
1x Audio-In
1x Audio-Out
1x HDMI

Expansion slots
1x MiniPCle



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