

Embedded V40 Mainboard



At the end of 2013, faytech started its embedded mainboard. Based on the several projects done in 2014, we launched the second version of our embedded mainboard. We currently provide two embedded mainboards- Embedded A20 Mainboard with high price-performance ratio, and Embedded V40 Mainboard with outstanding capability.

Offered in two versions: just W-LAN or W-LAN, Bluetooth 4.0, GPS integrated, POE Plug-in and OTG port. They are faytech's most cost effective yet powerful Dualcore and Quadcore solutions to Linux or Android based platforms.

On top of that, WinCE-BSPs are available for customization. This is not only available for our Embedded Touch PC series but also for single embedded systems.



Product name	Embedded Allwinner V40 Mainboard
Article code	FTV40XGYGWBG
Code explanation (after FTV40)	
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
External Maximum showable resolution	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):	-10 ~ +60
Humidity range (RH):	10% - 90%
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
18/24Bit LVDS
10x GPIO
1x Amplifier for 2x 6W loudspeaker
1x SATA-Port
RTC

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



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