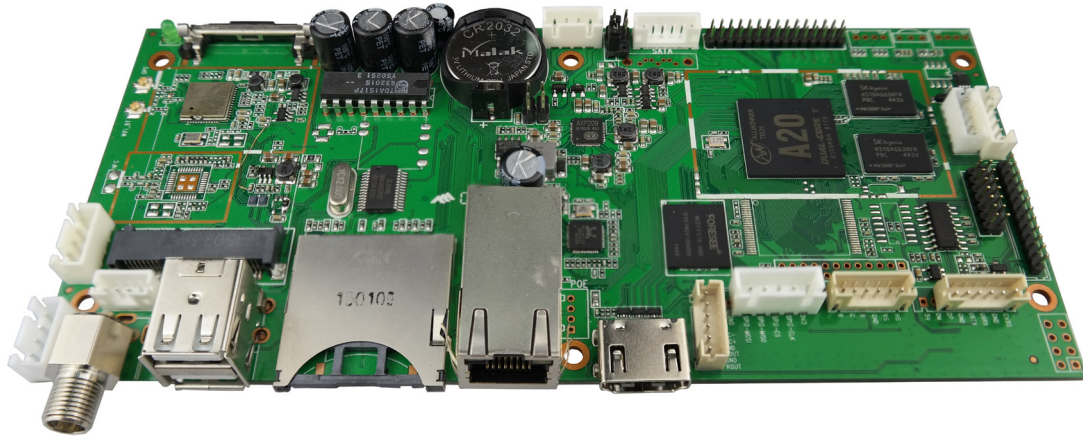


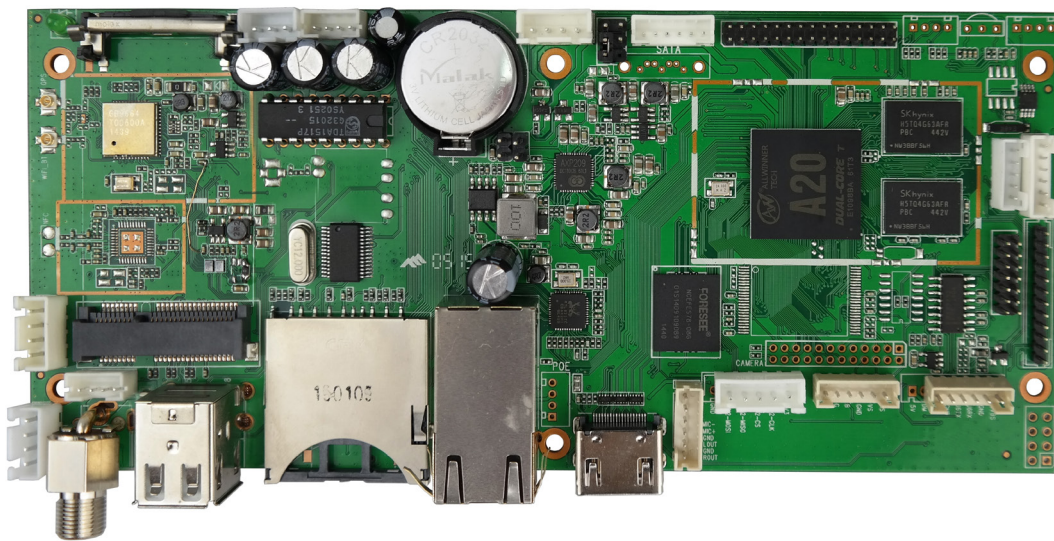
# Embedded Mainboard



faytech began its first embedded mainboard already by the end of 2013. Based on the experience with several project partners done by 2014, it is time to start with the V2.

Available in two standard versions with just W-LAN or with W-LAN, Bluetooth 4.0 and GPS integrated, POE-plugin and OTG-port added, it is faytech's most cost effective but still powerful DualCore solution for Linux and Android projects.

Even WinCE-BSPs are available for project partners. Now available in faytech's 9.7", 10.1", 15" and 21.5" embedded capacitive TPCs or as single embedded system.

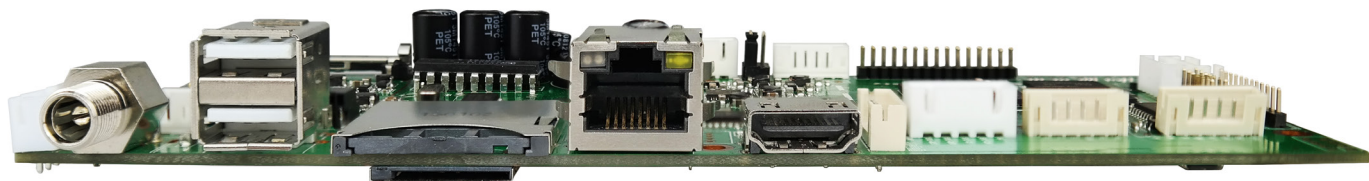


<b>Product name</b>	Embedded Allwinner A20 Mainboard
<b>Article code</b>	FTA20XGYGWBG
<b>Code explanation (after FTA20)</b>	
XG	1G or 2G RAM, 1G Standard
YG	4G to 16G Flash, 8G Standard
W	b,n W-LAN-adaptor, included in Standard-model
B	Bluetooth 4.0 adaptor, optional
G	GPS-module, optional
<b>Mainboard Specifications</b>	
Fanless, no moving parts	•
CPU	Allwinner A20 Cortex™- A7-Dual-Core
CPU-Cores	2x
CPU-clockspeed;Turbo Speed	1GHz;
Chipset	Cortex A7
Max. TDP (W)	6
Memory (Standard)	1G DDR3 RAM, 8G NAND Flash
Graphic	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 4.2, Android 4.4, Linux, WinCE

Internal Connectors
1x SD-card
1x SIM-card
2x Serial
4x TTL UART
2x USB 2.0
18/24Bit LVDS
24x 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
1×10/100/1000Mbit RJ45 Ports with connector for POE
1x Audio-In
1x Audio-Out
1x W-LAN-connector
1x HDMI

Expansion slots
1x MiniPCle



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