






Shenzhen Young-Feel Electronic Technology Co.,Ltd

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Product Introduction

Based on the demands of actual use scenarios, Young-Feel builds a multi-level product matrix to solve the complex practical problems in intelligent quotient display. Young-Feel has deep cooperation with Rockchip, a first-tier chip manufacturer in China, to launch a series of complete product lines. Young-Feel C series and Young-Feel B series motherboards are mainly for digital signage and intelligent terminals and other equipment. YF-023D, YF-024E, YF-025H, YF-028E, YF-029E these C series motherboards are mainly for the high-end experience of smart business display equipment. The YF-022A RK3588 solution is aimed at advanced intelligent commercial display devices.






Product line	Motherboard Serial	Typical Application
Rockchip series	Young-Feel C series : YF-023D, YF-024E, YF-025H, YF-026W, YF-028E, YF-029E	Standard advertising machine, touch signage, ordinary intelligent terminal 
	Young-Feel B series: YF-010E, YF-011E, YF-019H, YF-020E, YF-088D	Standard advertising machine 
	Young-Feel RK3588: YF-022A	Artificial intelligence, advanced intelligent terminal 



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Rockchip Solutions Android Motherboard Series



Item No.	YF-022A	YF-023D	YF-024E	YF-025H	YF-026W
Picture					
CPU/NPU	RK3588 Octa-core	RK3566 Quad-core (1T Computility)	RK3568 Quad-core (1T Computility)	RK3288 Quad-core	RK3399 Hexa-core
Architecture	Cortex-A76x4+ Cortex-A55 x4	Cortex-A55x4	Cortex-A55x4	Cortex-A17	Double Cortex-A72 macronucleus+4 Cortex-A53 nucleolus 64-bit CPU
CPU Main Frequency	2.4 GHz (UP to)	1.8 GHz (UP to)	2.0 GHz (UP to)	1.8 GHz (UP to)	2.0 GHz (UP to)
Operation System	Android 12/Android 13	Android 11&13/Debian 11	Android 11&13/Debian 11	Android 11&13/Debian 11	Android 11&13/Debian 11
DDR (RAM)	Standard configuration 4G Optional 8G / 16G	Standard configuration 2G Optional 4G	Standard configuration 2G Optional 4G / 8G	Standard configuration 2G Optional 4G	Standard configuration 4G
EMMC (ROM)	Standard configuration 64G Optional 128G	Standard configuration 16G Optional 32G / 64G /128G	Standard configuration 16G Optional 32G / 64G /128G	Standard configuration 16G Optional 32G / 64G /128G	Standard configuration 32G Optional 64G /128G
USB port	7 ports (4 Built-in USB interface/1 USB 2.0 Connector,1 standard USB 3.0 ports 1 Type-C)	6 ports (4 way built-in Interface /1 way USB 2.0 Connector, 1 standard USB 3.0 ports)	6 ports (4 Built-in USB interface, 2 standard USB 3.0 ports)	5 ports (3 Built-in USB interface/2 USB 2.0 Connector,)	6 ports (4 Built-in USB interface/2 USB 2.0 Connector,)
Serial port	3 TTL serial ports, 1 Debug,1 RS232	3 TTL serial ports, 1 RS232,1 Debug	3 TTL serial ports, 1 Debug, 1 RS232	2 TTL serial ports ,1 RS232	2 TTL serial ports ,1 RS232
IO interface	4 GPIO and 1 IO/Sensor	4 GPIO and 1 IO/Sensor	4 GPIO and 1 IO/Sensor	4 GPIO and 1 IO/Sensor	4 GPIO and 1 IO/Sensor
I2C interface	1 Way	1 Way	1 Way	1 Way	1 Way
HDMI output	HDMI OUT	HDMI OUT	HDMI OUT	HDMI OUT	HDMI OUT
Network support	1.Built-in WiFi6 module, support hotspot sharing and support BT 2.GbE 3.Support USB 4G module	1.Built-in WiFi, support hotspot sharing and BT 2.GbE 3.Support USB 4G module	1.Built-in WiFi, support hotspot sharing and BT 2.GbE 3.Support USB 4G module	1.Built-in WiFi, support hotspot sharing and BT 2.10M/100M adaptive Rj45 Ethernet 3.Support USB 4G module	1.Built-in WiFi, support hotspot sharing and BT 2.10M/100M adaptive Rj45 Ethernet 3.Support USB 4G module
Extended storage interface	USB/TF Card	USB/TF Card	USB/TF Card	USB/TF Card	USB/TF Card
Camera	USB	USB	USB	USB	USB
Video output interface	LVDS/MIPI/EDP	LVDS/MIPI/EDP	LVDS/MIPI/EDP	LVDS/MIPI/EDP	LVDS/MIPI/EDP
Video input	HDMI IN	NO	NO	NO	NO
Multi-screen Display	Double Screen Different Display	Not support	Double Screen Different Display	Double Screen Different Display	Double Screen Different Display
Audio frequency	Support Power Amplifier, Earphone and MIC	Support Power Amplifier, Earphone and MIC	Support Power Amplifier, Earphone and MIC	Support Power Amplifier, Earphone and MIC	Support Power Amplifier, Earphone and MIC
RTC Clock	Support	Support	Support	Support	Support
Timing switch	Support	Support	Support	Support	Support
Dimension	137*90*12mm Screw hole specification: ϕ 3.5mm x 4	142*75*1.6mm, Screw hole specification: ϕ 3.5mm x 4	142*75*1.6mm, Screw hole specification: ϕ 3.5mm x 4	142*75*1.6mm, Screw hole specification: ϕ 3.5mm x 4	142*75*1.6mm, Screw hole specification: ϕ 3.5mm x 4



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Rockchip Solutions Android Motherboard Series



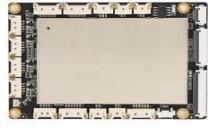
Item No.	YF-028E	YF-029E-Dual LVDS	YF-029E-Dual edp	YF-019H	YF-010E
Picture					
CPU/NPU	RK3568 Quad-core (1T Computility)	RK3568 Quad-core (1T Computility)	RK3568 Quad-core (1T Computility)	RK3288 Quad-core	RK3568 Quad-core (1T Computility)
Architecture	Cortex-A55x4	Cortex-A55x4	Cortex-A55x4	Cortex-A17	Cortex-A55x4
CPU Main Frequency	2.0 GHz (UP to)	2.0 GHz (UP to)	2.0 GHz (UP to)	1.8 GHz (UP to)	2.0 GHz (UP to)
Operation System	Android 11&13/Debian 11	Android 11&13/Debian 11	Android 11&13/Debian 11	Android 8.1	Android 11&13/Debian 11
DDR (RAM)	Standard configuration 2G Optional 4G / 8G	Standard configuration 2G Optional 4G / 8G	Standard configuration 2G Optional 4G / 8G	Standard configuration 2G Optional 4G	Standard configuration 2G Optional 4G
EMMC (ROM)	Standard configuration 16G Optional 32G / 64G /128G	Standard configuration 16G Optional 32G / 64G /128G	Standard configuration 16G Optional 32G / 64G /128G	Standard configuration 16G Optional 32G / 64G /128G	Standard configuration 16G Optional 32G / 64G /128G
USB port	6 ports (4 way built-in Interface /1 ways USB 2.0 Connector, 1 standard USB 3.0 ports)	10 ports (8 Built-in USB interface/1 USB 2.0 Connector, 1 standard USB 3.0 ports)	10 ports (8 Built-in USB interface/1 USB 2.0 Connector, 1 standard USB 3.0 ports)	6 ports (4 Built-in USB interface/2 USB 2.0 Connector,)	7 ports (4 Built-in USB interface, 2 External USB 2.0, 1 Micro USB)
Serial port	3 TTL serial ports, 1 Debug, 1 RS232	2 RS232, 2 TTL	2 RS232, 2 TTL	3 TTL serial ports	3 TTL serial ports, 1 Debug
IO interface	4 GPIO and 1 IO/Sensor	4 GPIO and 1 IO/Sensor	4 GPIO and 1 IO/Sensor	4 GPIO and 1 IO/Sensor	4 GPIO and 1 IO/Sensor
I2C interface	NO	1 Way	1 Way	1 Way	NO
HDMI output	HDMI OUT	HDMI OUT	HDMI OUT	HDMI OUT	HDMI OUT
Network support	1.Built-in WiFi, support hotspot sharing and BT 2.GbE 3.Support USB 4G module	1.Built-in WiFi, support hotspot sharing and BT 2.GbE 3.Support USB 4G module	1.Built-in WiFi, support hotspot sharing and BT 2.GbE 3.Support USB 4G module	1.Built-in WiFi, support hotspot sharing and BT 2.10M/100M adaptive Rj45 Ethernet 3.Support USB 4G module	1.Built-in WiFi, support hotspot sharing and BT 2.GbE 3.Support USB 4G module
Extended storage interface	USB	USB/TF Card	USB/TF Card	USB/TF Card	USB/TF Card
Camera	USB	USB	USB	USB	USB
Video output interface	LVDS/MIPI/EDP	Double DuPont EDP	(Single LVDS,MIPI) /EDP/LVDS	LVDS/MIPI/EDP	LVDS/EDP/MIPI
Video input	HDMI IN	NO	NO	NO	NO
Multi-screen Display	Double Screen Different Display	Double Screen Different Display	Double Screen Different Display	Double Screen Different Display	Double Screen Different Display
Audio frequency	Support Power Amplifier, Earphone and MIC	Support Power Amplifier, Earphone and MIC	Support Power Amplifier, Earphone and MIC	Support Power Amplifier, Earphone and MIC	Support Power Amplifier, Earphone and MIC
RTC Clock	Support	Support	Support	Support	Support
Timing switch	Support	Support	Support	Support	Support
Dimension	142*75*1.6mm, Screw hole specification: ϕ 3.5mm x 4	142*75*1.6mm, Screw hole specification: ϕ 3.5mm x 4	142*75*1.6mm, Screw hole specification: ϕ 3.5mm x 4	100*70*1.6mm, Screw hole specification: ϕ 2.8mm x 4	100*70*1.6mm, Screw hole specification: ϕ 2.8mm x 4



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Rockchip Solutions Android Motherboard Series

Item No.	YF-011E	YF-020E-4K	YF-088D
Picture			
CPU/NPU	RK3568 Quad-core (1T Computility)	RK3568 Quad-core (1T Computility)	RK3566 Quad-core (1T Computility)
Architecture	Cortex-A55x4	Cortex-A55x4	Cortex-A55x4
CPU Main Frequency	2.0 GHz (UP to)	2.0 GHz (UP to)	1.8 GHz (UP to)
Operation System	Android 11&13/Debian 11	Android 11&13	Android 11&13/Debian 11
DDR (RAM)	Standard configuration 2G Optional 4G	Standard configuration 2G Optional 4G / 8G	Standard configuration 2G Optional 4G
EMMC (ROM)	Standard configuration 16G Optional 32G / 64G /128G	Standard configuration 16G Optional 32G / 64G /128G	Standard configuration 16G Optional 32G / 64G /128G
USB port	7 ports (4 Built-in USB interface, 2 External USB 2.0, 1 TYPEC2.0)	6个USB HOST(4 Built-in USB interface)	5 ports
Serial port	4 TTL serial ports, 1 Debug	3 TTL serial ports, 1 Debug, 1 RS232	3 TTL serial ports, 1 RS232, 1 Debug.
IO interface	4 GPIO and 1 IO/Sensor	4 GPIO and 1 IO/Sensor	4 GPIO and 1 IO/Sensor
I2C interface	NO	1 Way	1 Way
HDMI output	HDMI OUT	HDMI OUT	NO
Network support	1.Built-in WiFi, support hotspot sharing and BT 2.GbE 3.Support USB 4G module	1.Built-in WiFi, support hotspot sharing and BT 2.GbE 3.PCIE 4G module slot	1.Built-in WiFi, support hotspot BT 2.10M/100M adaptive Rj45 Ethernet
Extended storage interface	USB/TF Card	USB	USB
Camera	USB	USB	USB
Video output interface	EDP/MIPI*2	Ve-By-One 4K Output interface	MIPI/EDP
Video input	NO	HDMI IN	NO
Multi-screen Display	Three screens different Display	Double Screen Different Display	Not support
Audio frequency	Support Power Amplifier, Earphone and MIC	Support Power Amplifier, Earphone and MIC	Support left and right channel output 8R/2W speaker
RTC Clock	Support	Support	Support
Timing switch	Support	Support	Support
Dimension	100*70*1.6mm, Screw hole specification: ϕ 2.8mm x 4	135*90*1.6mm Screw hole specification: ϕ 3.5mm x 4	90*60*6mm, Screw hole specification: ϕ 3.5mm x 4