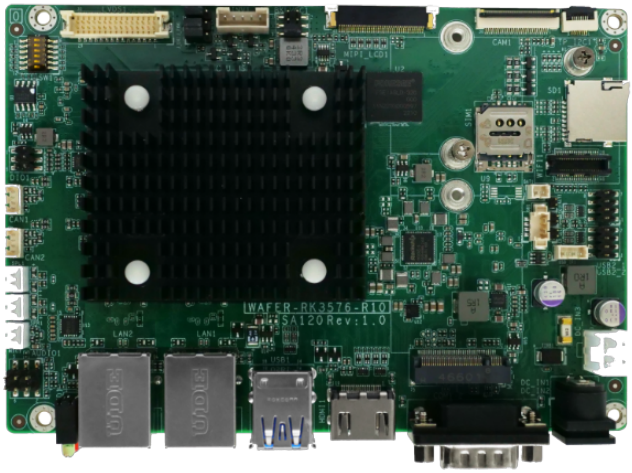
WAFER-RK3576

3.5 SBC supports Rockchip RK3576 (Quad-code Cortex-A72@2.3GHz + Quad-code Cortex-A53@2.2GHz)



Features

» Rockchip RK3576 (Quad-code Cortex-A72@2.3GHz + Quad-code Cortex-A53@2.2GHz)

» On-board 8GB LPDDR5, Up to 16GB

» Triple independent display via HDMI2.0, MIPI-DSI and LVDS

» Support Dual YT8531C 1GbE LAN

» Support M.2 B key and B to B Connector expansion

Specifications

Form Factor	
Form Factor	3.5 SBC
System	
CPU	Rockchip RK3576
	(Quad-code Cortex-A72@2.3GHz + Quad-code Cortex-A53@2.2GHz)
Memory	On-board 8GB LPDDR5
Memory Max.	up to 16GB
Physical Characteristics	
Dimensions (LxWxH) (mm)	146mm x 102mm
Net Weight	GW:850g / NW:350g
I/O Interface	
Display Output	1 x HDMI™ : 2.0
	1 x LVDS
	1 x MIPI DSI : 40Pin 0.5mm FPC
Ethernet	2 x LAN : YT8531C 1GbE LAN
Audio	HD Audio -
	1 x Line out+Mic, 2x3 pin header
	1 x 2pin Socket for Speaker (1x 3W: RL=4Ω)
	1 x MIC (Wire to Board,WAFER 1 X2pin, DIP, 180°, P=1.25mm)
I/O Interface	External RS-232 : 2 x RS-232/485 By 1 x BD9 Port
	2 x External USB 3.2 Gen1x1 : Type-A, 5Gb/s
	5 x Internal USB 2.0 - 4 x USB 2.0 (2x4 pin, P=2.0) 1 x USB for touch
	1 x DIO : 4-bit GPIO
Other Features	
Camera	1 x MIPI CSI 4Lanes x 1 (30pin 0.5mm FPC)
Power	
Power Consumption	12V@2.052A (Rockchip RK3576 CPU with LPDDR5 8GB memory)

Power Supply	12V DC IN, DC JACK/Terminal Block Colay Design
Environment	
Operating Temperature	0°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Humidity	5% ~95%, non-condensing
Card Slot Interface	
M.2	1 x M.2 B key 3042/3052/2280 (PCIe Gen2 x1 & USB 2.0)
	1 x On-board SIM card socket (hinge type) for M.2 B key
	1 x B to B Connector (Support iWB-RTL8822/iWB-BCM43752)

Ordering Information

WAFER-RK3576-CFD-R10	3.5” SBC supports Rockchip RK3576 Processors with 8GB LPDDR4 memory & 64GB eMMC NAND Flash, HDMI、LVDS、&MIPI DSI、Debain12 & RoHS

Packing List

1 x WAFER-RK3576 single board computer	1 x I/O Shielding
1 x SATA cable	1 x QIG