

AFL4-W07-RK3566

IEI Light Industrial Panel PC

Powered by Rockchip RK3566 Platform



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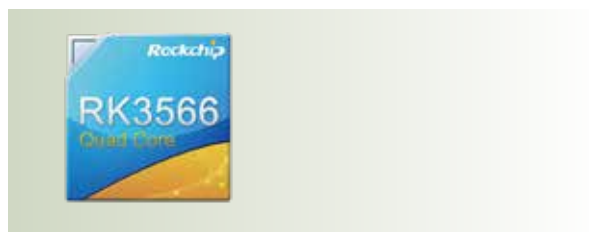
AFL4-W07-RK3566

AFL4-W07-RK3566 is a fanless 7" industrial panel PC powered by the Rockchip RK3566, featuring onboard LPDDR4/LPDDR4X memory, eMMC storage, HDMI 2.0 display output, and rich I/O for industrial connectivity.



Rockchip RK3566 SoC

Rockchip RK3566 (Quad Cortex-A55 up to 1.8 GHz, Mali-G52 GPU, 1 TOPS NPU)



Supports 4K UHD display output

HDMI 2.0 supports up to 4K video decoding and up to 1080p@60fps video encoding.



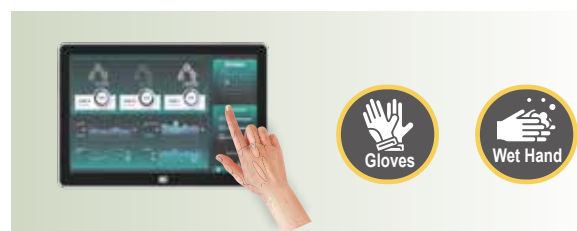
Anti-glare and Anti-UV PCAP

PCAP touch with anti-glare & anti-UV coating; 10-point multi-touch



Glove touch supported, wet-touch rejection helps reduce false touches caused by water splashes.

The equipped capacitive touch screen supports gloved operation and waterproof function that can effectively eliminate false touch operating caused by water spray.



Extensive I/O Interfaces

Rich I/O: USB 3.0, USB 2.0 OTG, GbE, HDMI 2.0, Audio, Micro SD, Nano SIM, 2 × DB9 serial

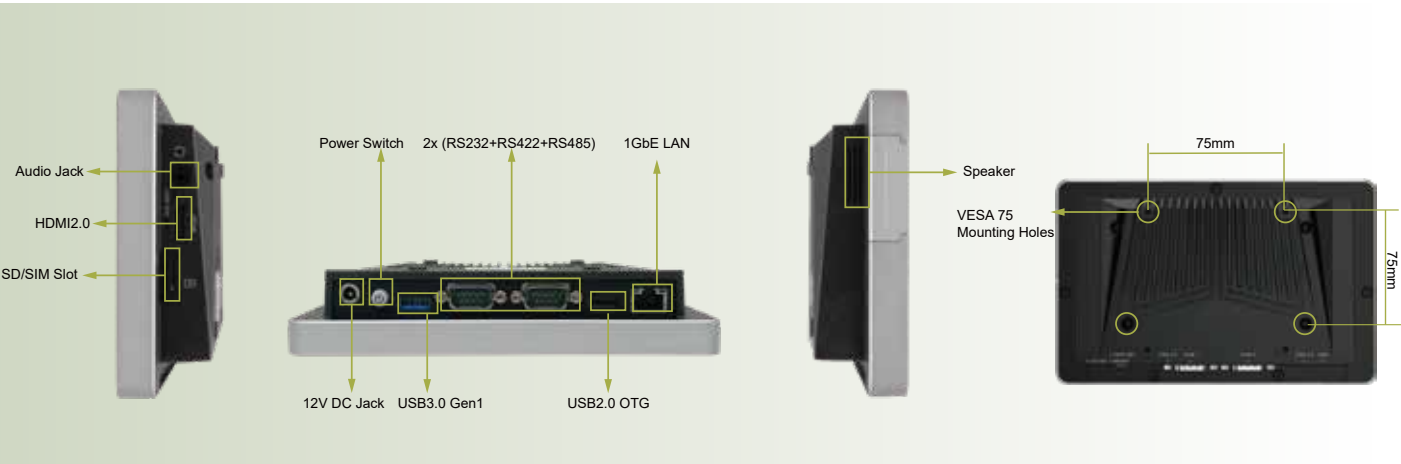


Optional Wi-Fi 5/6 + Bluetooth 5.0 and 4G/5G module support.

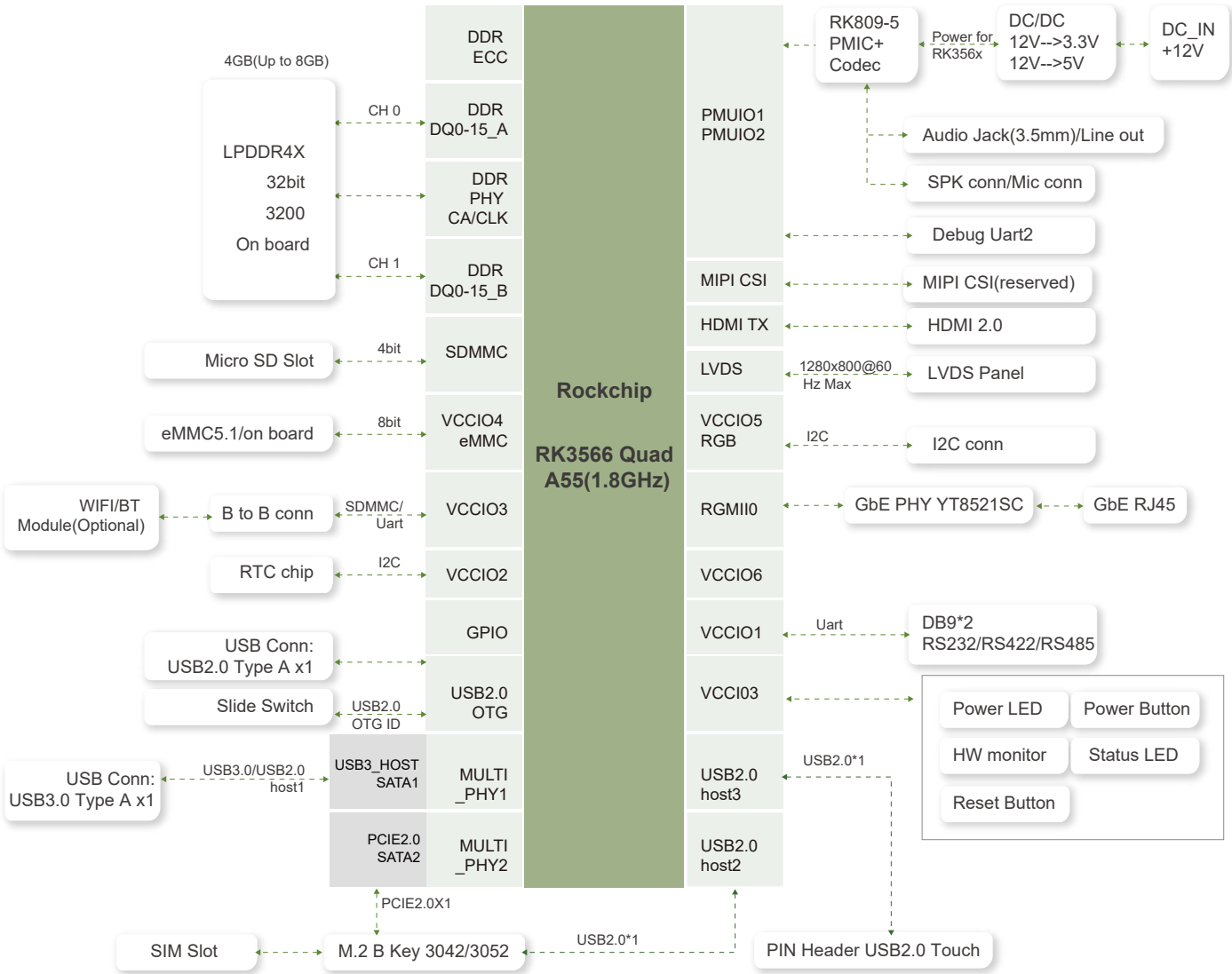
Optional Wi-Fi 5/6 + BT 5.0; optional 4G/5G via M.2 B-Key 3042/3052



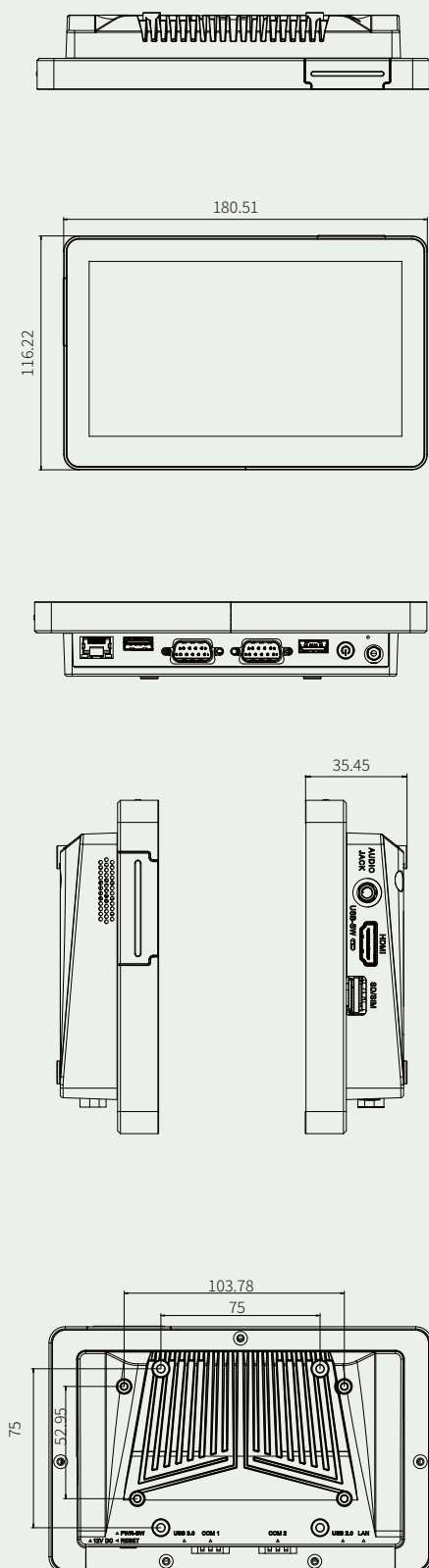
AFL4-W07-RK3566



AFL4-W07-RK3566 Block Diagram



Dimensions



Specifications

Model		AFL4-W07-RK3566	AFL4-W07-RK3566-A
LCD	LCD Size	7" (16:9)	
	Resolution (WxH)	1024 x 600	
	Brightness(cd/m ²)	450	
	Contrast Ratio	800:1	
Touch	Viewing Angle(H-V)	170°/170°	
	Touch Type	PCAP with USB interface (anti-UV/AG coating)	
Mainboard	Touch IC	EETI EXC81 Series	
	SoC	Rockchip RK3566(Quad-core Cortex-A55 up to 1.8GHz)	
I/O	RAM	4GB LPDDR4/4X, Up to 8GB	
	Storage	32GB eMMC NAND FLASH*	
	USB3.0	1x USB 3.0 Type-A (Host)	
	USB2.0	1x USB 2.0 Type-A (OTG, switchable)	
	Ethernet	1x 1GbE LAN by YT8521SC	
	UART	2x (1xRS-232&1xRS422/485&1xRS485 by DB9 Port)	
	HDMI	HDMI 2.0: Up to 4K output.	
		OS display limitation: Android supports mirrored dual display; Debian supports single display only.	
Multimedia	SD Card	1x Micro SD Slot	
	SIM CARD	1x NANO SIM Card Slot	
	Power Port	1x 12V DC Jack	
	Expansion	1x 3042/52 B-key (PCIe Gen2 x1, USB 2.0) 1x On-Board SIM Card Socket (Push-Push) for M.2 B key 1x board to board connector(Only supports IEI wireless modules)	
Switch	Audio	1x Speaker (1W) 1x 3.5mm Audio Jack (Line-out/Line-in)	
	Switch	1x Power button with LED 1x Reset button 1x USB OTG switch	
Physical	Body Material	Aluminum die casting	
	Mounting	Panel, Wall, Stand, Arm, VESA 75	
	Color	Silver + Black	
	dimension (mm)	180.51 x 116.22 x 35.45	
Environment	Operating Temperature	0~50 °C	
	Storage Temperature	-20~60 °C	
	Humidity	10%~90%@40 °C.(Non-condensing)	
	IP Level	IP64 compliant front panel	
	Safety&EMC	CE, FCC	
	Thermal Solution	Fanless	
	Power	DC Power Jack: 12V	
	Power Consumption	12V@1.05A (Rockchip® RK3566 with 2GB Memory, 16G eMMC, Debian OS)	
OS	Weight	0.67 / 1.29kg	
	OS	Debian10 (Kernel 4.19)	Android 12

*Due to component supply variations, eMMC capacity may be substituted with 64GB without prior notice. Actual shipment is subject to BOM availability.

Packing List

1 x Power Cord	1x Power Adapter	1xQIG
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Ordering Information

AFL4-W07-RK3566-R10	7" 450cd/m ² 1024x600 fanless Panel PC with RK3566, 4GB LPDDR4/4X, 32GB eMMC, 1xUSB2.0, 1xUSB3.0, 2xRS-232/422/485, HDMI, 1xRJ45, 12V DC IN, Option WIFI/BT, Optional M.2 B key for 3042 LTE, PCAP touch, Debian10, RoHS
AFL4-W07-RK3566-A-R10	7" 450cd/m ² 1024x600 fanless Panel PC with RK3566, 4GB LPDDR4/4X, 32GB eMMC, 1xUSB2.0, 1xUSB3.0, 2xRS-232/422/485, HDMI, 1xRJ45, 12V DC IN, Option WIFI/BT, Optional M.2 B key for 3042 LTE, PCAP touch, Android12, RoHS

Options

Item	Part No	Description
Stand	STAND-C12-R10	VESA 75/100 Easy Stand
V-Stand	VSTAND-A07-R12	Stand V Type for AFL series, VESA 75, 2.5KG
Wall	AFLWK-12	Monitor Wall mounting kit WIFI+Bluetooth Module, AP6275SDSR, 2T2R, 802.11 a/b/g/n/ac/ax Wi-Fi + BT 5.3, with Internal WIFI 6 antenna, FCC/CE/NCC
WIFI/BT Kit	iWB-AP6275SDSR-IA-R10	