

[VT310]

제품 사양서

Target Applications

- | | |
|--|---|
| ☐ 7inch ~100inch DID Board | ☐ AI Digital Signage Board |
| ☐ Digital Signage Set-top Board | ☐ Robotics Board |
| ☐ 4K Digital signage | ☐ Digital Healthcare Board |
| ☐ Smart Mirror Board | ☐ Industrial control/PC |
| ☐ Industrial Tablet Board | ☐ Kiosk Board |
| ☐ LED Signage Set-top Board | ☐ ODM Panel PC |

Overview

- 고성능 임베디드 시스템 구현을 위한 최적의 솔루션
- Six-core Processor RK3399 경량 PC급 임베디드
- 최상의 3D이미지와 그래픽 성능의 Mail-T860 MP4 Quad-core GPU
- Powerful Hardware 고해상도 3D그래픽 처리 및 4K 영상 디스플레이 지원
- 국내 순수 자체 개발한 임베디드 보드 (Made in Korea)
- 신속한 A/S 지원(자체 개발 기술 연구소 지원)

Features

8-Core 64bit processor

- 8-Core 64bit processor RK3588
- 8nm lithography process
- up to 2.4GHz

NPU processor

- 6Tops NPU
- INT4/INT8/INT16 mixed operation
- TensorFlow / MXNet / PyTorch / Caffe

Network communication

- Support 2.5GbE + 1GbE 2ch
- 2.4G/5G dual-band WiFi6+Bluetooth5.0 (옵션)
- PoE 지원 (별도문의)

Camera

- USB3.0 Vision Camera
- 4K IP Camera
- MIPI CSI Camera

8K Powerful GPU

- Support HDMI 3Port (8K+4K)
- 8K@60fps H.265/VP9 Decoding
- 8K@30fps H.265/H.264 Encoding

Supported OS



Android



Linux

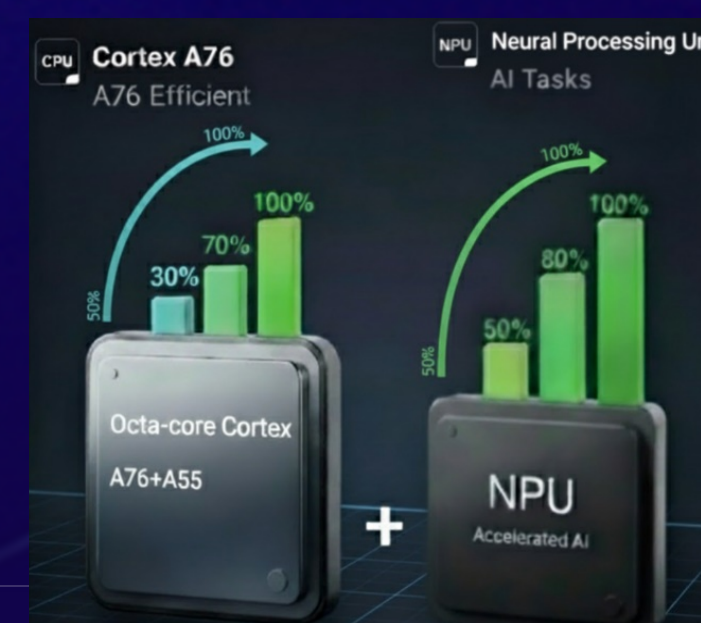
High performance



Powerful Graphic



On Device AI



Korean technical support

Low Cost
ODM/OEM

VT310 Spec

Specification

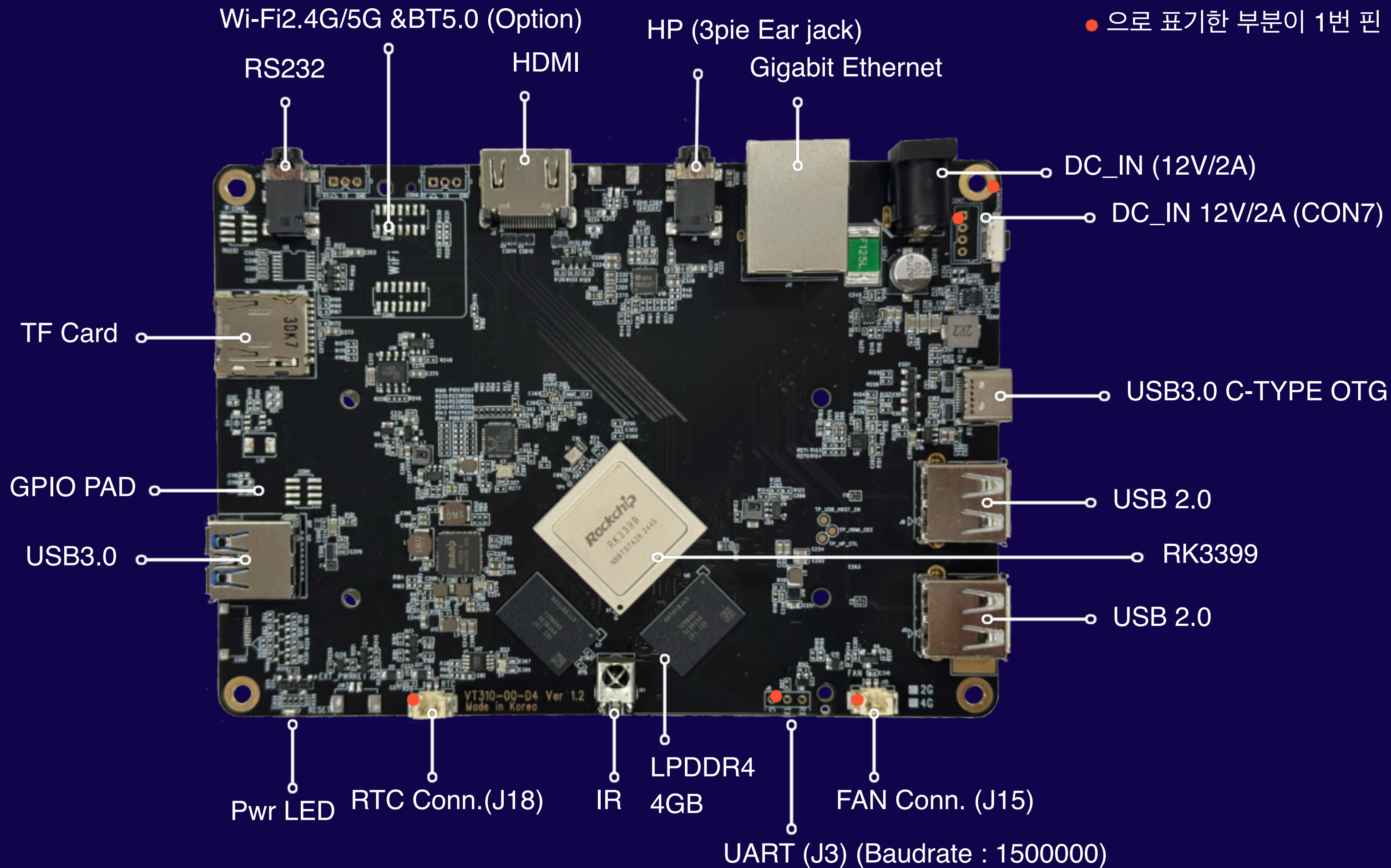
Specification	
SoC	Rockchip RK3399
CPU	Six-Core ARM® 64-bit (A53x4+A72x2)
GPU	• ARM Mali-T860 MP4 Quad-Core GPU
VPU	• Supports multi-format video decoders including H.264/H.265/VP9 up to 4Kx2K@60fps • H.264/H.265 decoders support 10bits coding, and also supports H.264/MVC/VP8 Encoders by 1080p@30fps • high-quality JPEG encoder/decoder, and special image Preprocessor and postprocessor.
RAM	LPDDR4 2GB / 4GB
Storage	eMMC 16GB (Up to 128G)
OS	Android 11(구글 스토어지원) / 12(구글 스토어지원 X) / Linux Debian-10 (kernel 4.19)
Temperature	-20°C ~ 85°C

Description

Component	Description	
HDMI	HDMI 2.0 Support 4K@60Hz display output and HDCP 1.4/2.2	
Ethernet Port	Built-in Gigabit Ethernet PHY chip. 10/100/1000M bps Ethernet	
LCD	10.1 인치 (해상도 1200x1920)	
TOUCH	정전방식 (5Finger C-Touch)	
USB	USB3.0 × 1 / USB2.0 × 2 ,USB3.0 Type-C (OTG) × 1	
Audio	Headset out x 1 (3.5mm Audio Jack)	
Wi-Fi & Bluetooth (Option)	Option 1	2.4GHz/5GHz dual-frequency Wi-Fi, support 802.11a/b/g/n/ac protocols, Support Bluetooth 5.0
	Option 2	2.4G Wi-Fi 802.11b/g/n
RTC	Support RTC, on-board backup battery interface	
IR	Support infrared remote control	
TF Card	Micro SD Card	
RS232	RS-232 x 1 (3 pin wafer connector or 3.5mm Audio Jack) ,UARTx2	
Expansion Interface	(GPIO x3, ADC × 1, PWM × 2, UARTx1)	
Button	Key x 2 (Power and Reset)	
FAN	FAN x 1 (3 pin wafer connector) FAN Heatsink (Option)	
Power Input	DC 12V/2A (5.5mmφ 1mm Pie DC Jack or 4 pin wafer connector)	
Temperature	-20°C ~ 85°C	
Board Size	132mm x 94mm	

Key Features

Connector Pin map



DC_IN 12V/2A (CON7)

P/N: SW0500-04	
No.	Pin map
1	12V
2	12V
3	GND
4	GND

RTC Conn. (J18)

P/N: 12505WS-02	
No.	Pin map
1	Coin Batt. 3V
2	GND

FAN Conn. (J15)

P/N: 12505WS-02	
No.	Pin map
1	FAN OUT
2	GND

UART (J3)

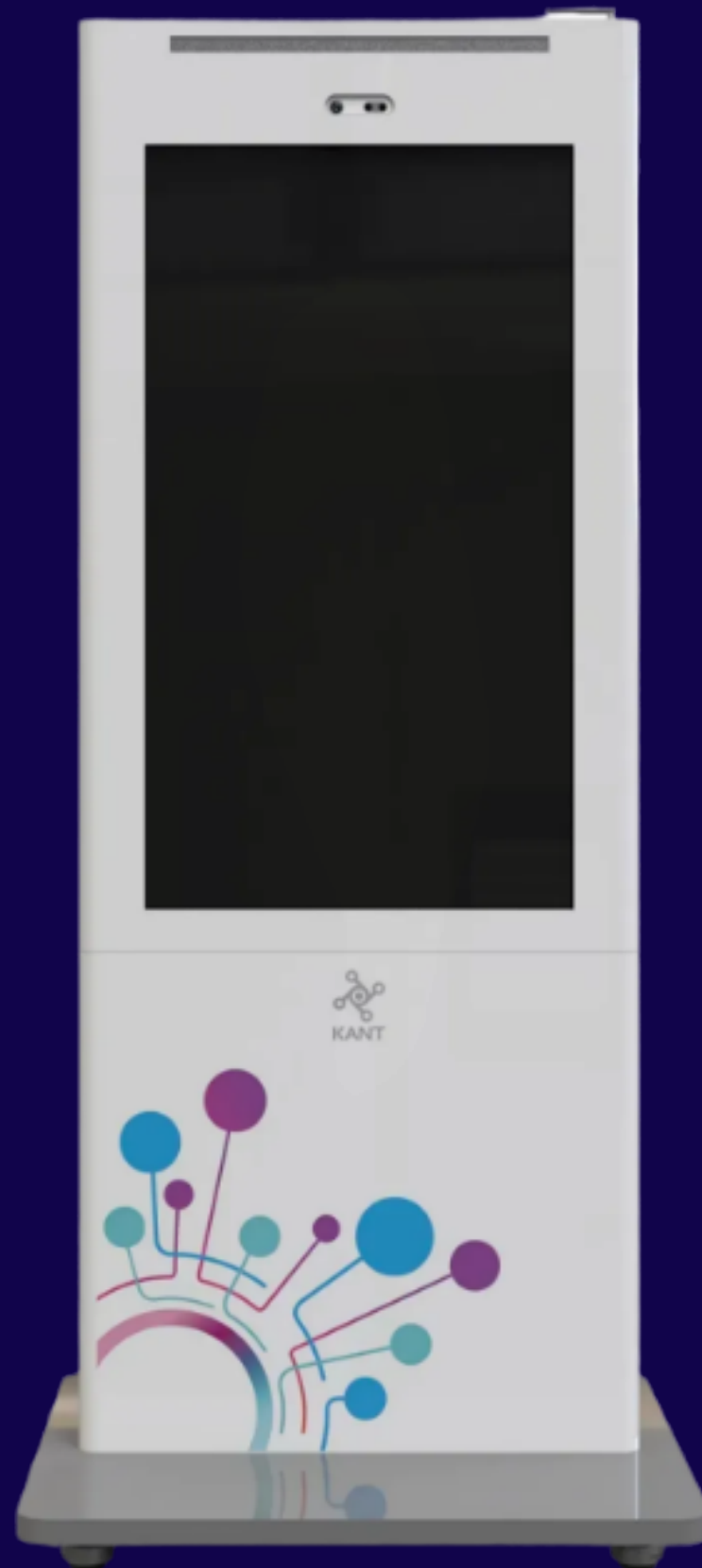
P/N: 1.25mm 3Pin	
No.	Pin map
1	GND
2	TX
3	RX

RTC Conn. (J18)

PAD-TYPE	
GPIO-1	5V
ADC	GPIO-4
GPIO-2	NC
GPIO-3	GND

Target of manufactures (DID Products)

Digital Signage(스탠드형)



Digital Signage(싱글형)



주문형 Digital Signage(스탠드형)

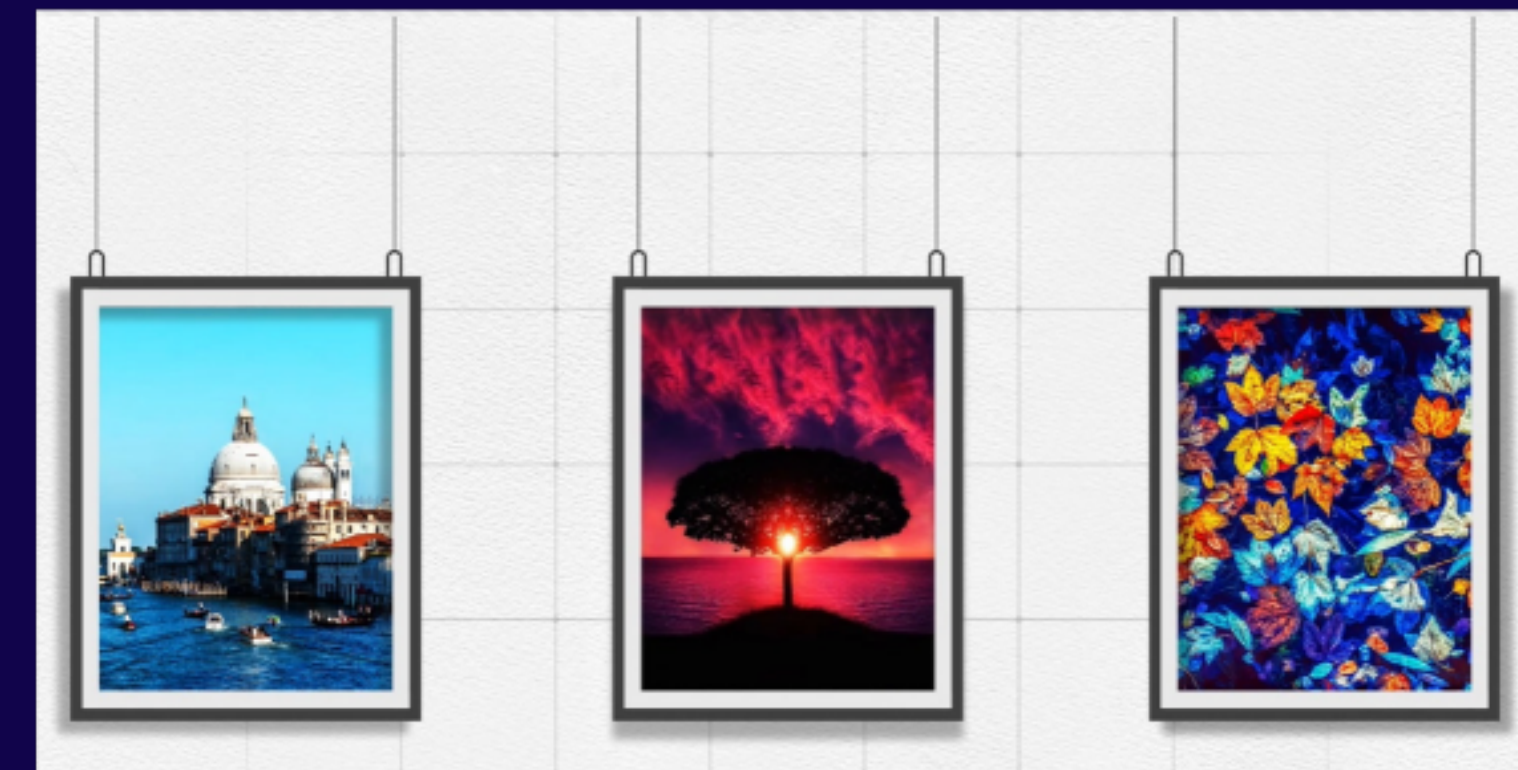


Target of manufactures (LED Display Products)

LED Digital Signage



LED Art 전자 액자



Target of manufactures (AI Products)

AI (대화형) Digital Signage



AI (안면인식) Digital Signage

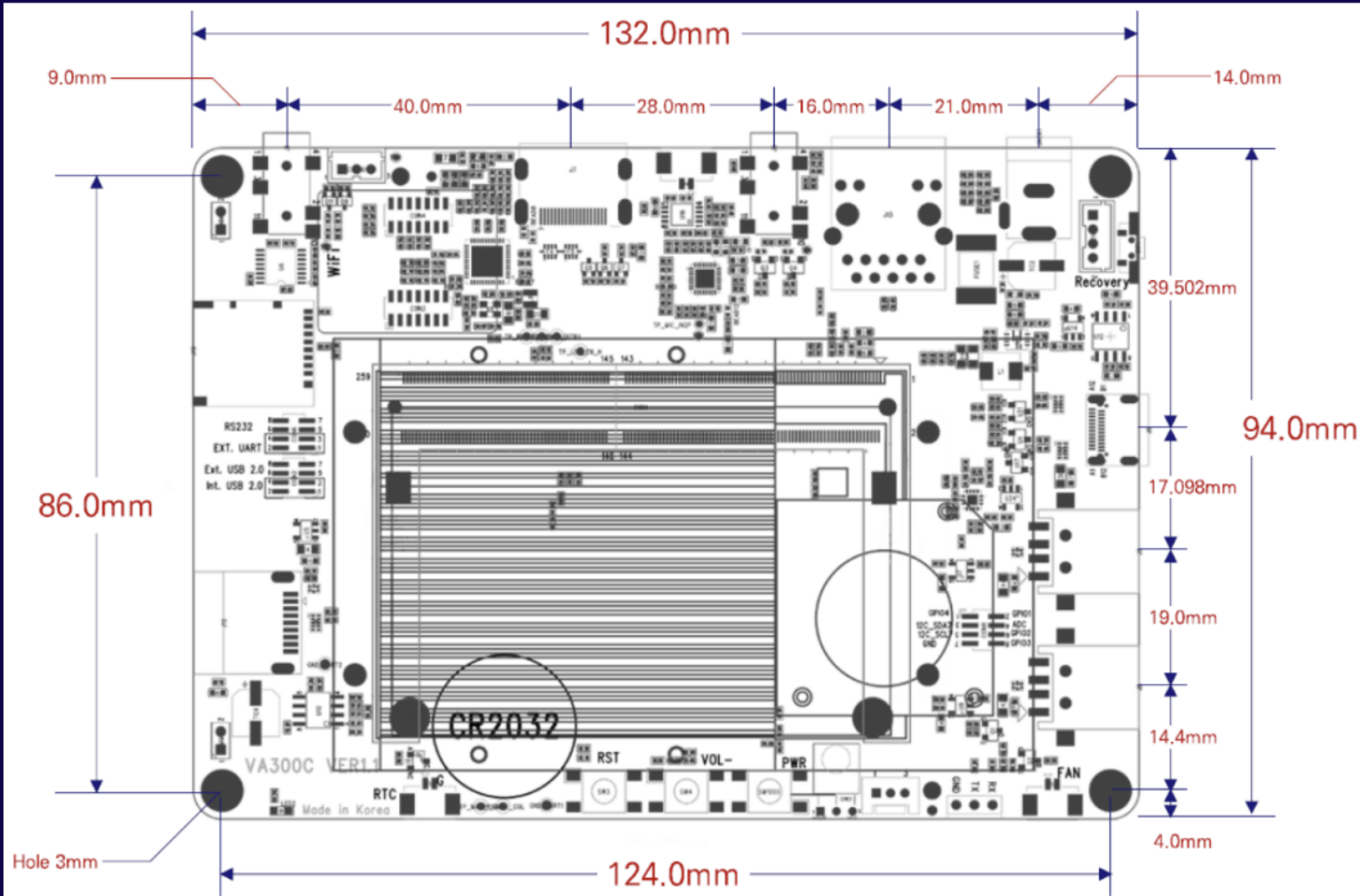


AI (반응형) Digital Signage

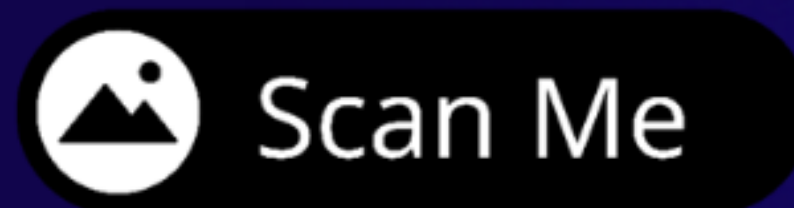


Board Dimension

- 제품 Size 가로 138mm x 세로 103mm
- 제품 두께 26.5mm
- 제품 무게 23g



| 구입처 및 문의



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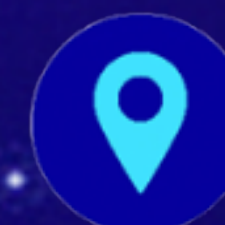
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