Widora AIR V6.0

AIR hardware platform based on ESP32 microcontroller, onboard 4MByte FLASH and peripheral circuits, will also be integrated WI-FI / BT antenna, AIR also comes with a USB-TTL debugger circuit that makes it easy for users to download the watch code to run. The AIR size is only 2440mil*700mil with so many peripherals.

Features:

Microcontroller: ESP32-D0WDQ6(Tensilica 32-bit LX6)
Clock Frequency: up to 240MHz
Performance: up to 600DMIPS
Wi-Fi: 802.11 b/g/n/e/i (802.11n @ 2.4 GHz up to 150 Mbit/s)
Bluetooth: V4.2 BR/EDR and Bluetooth Low Energy
Security: AES,SHA2,RSA-4096
SRAM: 520KiB
External FLASH: 4MiB
32 I/O pins with several builtin peripherals
Console: CP2104 USB to UART bridge chip
Support MacOS windows and linux
Compatible with ESP-WROOM NODEMCU for Arduino
Size: 2440mil x 700mil
Operating temperature: -40 ～ +85 Degrees celsius

Applications
Home and building automation
Wireless alarm and security system
Industrial monitoring
Audio codec and playback

Pins description

Top Row	Des	Functions	Bottom Row	Des	Functions
1	VIN	Power in	1	3V3	3V3 Power out
2	GND	GND	2	GND	GND
3	IO4	GPIO4	3	3V3	3V3 Power out
4	IO0	GPIO0(1)	4	IO16	GPIO16
5	IO2	GPIO2	5	IO17	GPIO17
6	IO15	GPIO15/MTDO	6	HD	FLASH Hold
7	IO13	GPIO13/MTCK	7	WP	FLASH Write protect
8	IO12	GPIO12/MTDI	8	CS0	FLASH CS0
9	IO14	GPIO14/MTMS	9	CLK	FLASH CLK
10	IO27	GPIO27	10	SPIQ	FLASH DOUT
11	IO26	GPIO26	11	SPID	FLASH DIN
12	IO25	GPIO25	12	IO5	GPIO5
13	IO33	GPIO33	13	IO18	GPIO18
14	IO32	GPIO32	14	IO23	GPIO23
15	IO35	GPIO35	15	IO19	GPIO19
16	IO34	GPIO34	16	IO22	GPIO22
17	PU	High:ON,Low:OFF	17	RXD0	GPIO3/RXD0
18	VN	GPIO38/SensVN	18	TXD0	GPIO1/TXD0
19	VP	GPIO36/SensVP	19	IO21	GPIO21
20	GND	GND	20	GND	GND