

U7986-18 Brief Specification



Highlight Features

- Embedded Quad-core ARM® Cortex-A53 MPCore operating at 2.0GHz
- Optional 5G /LTE application
- WiFi6 AX6000 platform
- Optional SPI NAND for low cost and EMMC for big storage application
- Industry iron case with different color support

Specifications

Chipset	CPU: MTK MT7986A Quad-core ARM® Cortex-A53		
Cilipset			
	WiFi6: MTK MT7975N+MT7975PN		
	5 Giga-PORT Switch: MTK MT7531AE		
System Memory	Default DDR4 2Gbyte (Optional 512Mbyte/1Gbyte)		
EMMC	Default 16Gbyte EMMC (Optional 8Gbyte EMMC)		
Nor Flash	Default 16Mbyte Nor Flash for MCU		
NAND Flash	Optional 128/256Mbyte NAND Flash		
Expansion	1x 5G/4G Module		
	1x FPC Connect to Screen		
	1x RS485 connector		
Screen	3.95 inch, 84x84mm		
Wireless	MU-MIMO 802.11a/b/g/n/ac/ax WiFi 6		
	2.4GHz 4T4R 1148Mbps, B mode@22dBm(Max)		
	5.8GHz 4T4R 4800Mbps, A mode@23dBm(Max)		
Bluetooth Module	Support version 5.2		
Wired Interface	1x 2.5G WAN+4x Giga LAN		
Reset Button	1x Factory Restore Button (GPIO)		
DC Power	1x DC Jack Connector (Default 12V@2A)		
Power Consumption	24W(Max),12V@2A without Expansion		
	36W(Max),12V@3A in full range		
Software	MTK OpenWrt which includes Uboot, Kernel, Driver and Tool Chain		
Environmental	Temperature: Operating: 0°C to 50°C, Storage: -40°C to 90°C		
	Humidity (non-condensing): Operating: 5% to 95%, Storage: Max. 95%		
Case	Material: Iron, Dimensions: 180x127x30mm		

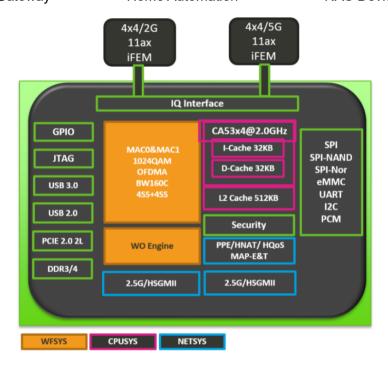


MT7986A Block Diagram

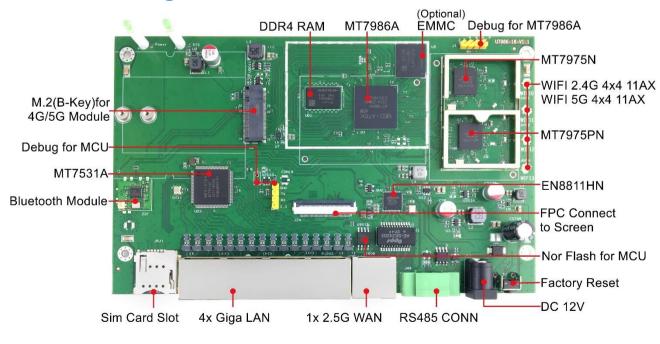
MT7986A is a highly integrated wireless network router system-on-chip used for high wireless performance, home entertainment, and home automation and so on.

Applications:

- Internet Service Router
- Home Security Gateway
- Wireless Router
- Home Automation
- Wireless Repeater
- NAS Devices



Board Block Diagram









Customization Options

UNITED AIOT have engaged in providing global customers with professional ODM/OEM service of customized stable and cost-effective electronic products. We can customize total production for the customer including Chassis, Hardware, Software and Package as below customization options for this product. Contact us at sales@uiotin.com for more detailed info.

Name	Customization Comments	UNITED AIOT Customization
Memory	Change to 512Mbyte/1Gbyte DDR4	Supported
NAND Flash	Change to 128/256Mbyte NAND Flash	Supported
EMMC	Change to 8Gbyte EMMC	Supported
5G/4G Module or Video	Select the right M2 5G/4G module or Video	Supported
compression Module	compression Module for your application	
Case	Select the different case material for your application	Supported
	Select Industry Iron case with different color	

Ordering Information

Models	Comments
U7986-18	2GByte DDR4 RAM and 16Gbyte EMMC



UNITED AIOT Platform Catalog

