

Module Series

SiP module



ITM-2075-01/ ITM-2075-02

- IEEE 802.11ax compliant
- Full IEEE 802.11a/b/g/n/ac legacy
- Client MU-MIMO
- Supports multiple simultaneous Advanced Audio Distribution Profiles (A2DP)

- Adaptive frequency hopping (AFH)
- Supports battery range from 3.0V to 5.0V supplies
- Faster data encryption and IEEE 802.11i compatibility
- Reference WLAN subsystem provides Wi-Fi Protected Setup (WPS)

ITM-2075-01 & ITM-2075-02 are 802.11ax (WiFi 6E) SiP Modules, that are a highly integrated Wi-Fi 6/ 6E and Bluetooth® 5.2 SoC family. They provide SDIO 3.0 & PCIe interfaces for more resilient applications, and allow increased capacity/ faster speed/ better coverage connections/ improve the battery life of IoT sensors, and extend the range of Wi-Fi signals.

By implementing the new 802.11ax standard with its unique features such as OFDMA, 1024 QAM, Target Wake Time (TWT), and spatial reuse, the SiP modules bring exceptional high-quality video/audio streaming and seamless gaming experience in a congested network environment and significantly reduces latency by operating in the 6G spectrum.

ITM-2075-01

MainChip	SYN43756
WiFi	Arm Cortex-R4
Bluetooth	5.1
Interface	WiFi: SDIO3.0(1.8v) / BT: UART/PCM/I2S
Package	LGA-136pin
Moisture Sensitivity Levels	Level-3
Dimension	10.0x10.0x0.982mm(Typ.)
Operating Voltage	VBAT:3.2v ~ 4.8v / VDDIO:1.8v
Temperature	-30°C ~ + 85°C
Humidity	Storage <60% / Operation <80%

ITM-2075-02

MainChip	SYN43756
WiFi	Arm Cortex-R4
Bluetooth	5.1
Interface	WiFi: PCIe / BT: UART/PCM/I2S
Package	LGA-136pin
Moisture Sensitivity Levels	Level-3
Dimension	10.0x10.0x0.982mm(Typ.)
Operating Voltage	VBAT:3.2v ~ 4.8v / VDDIO:1.8v
Temperature	-30°C ~ + 85°C
Humidity	Storage <60% / Operation <80%