

IoT-WiFi SiP solution

	AI7681H1	AI7688H	AI7687H	AI7697H	AI7697HD
MCU Type	ANDES N9 (80MHz.)	MIPS32® 24KEc™ (575/580 MHz)	ARM Cortex®-M4F (32 bit RISC)	ARM Cortex®-M4 (32 bit RISC)	ARM Cortex®-M4 (32 bit RISC)
Chipset	MT7681	MT7688AN (580MHz)	MT7687	MT7697N	MT7697DN
Wireless	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 a/b/g/n
				Bluetooth 4.2 (LE)	Bluetooth 4.2 (LE)
Package	Stamp type	Stamp type	Stamp type	Stamp type	Stamp type
Interfaces	SPI, GPIO, Software PWM, UART	I2C, GPIO (22), UART (3), USB (Host) , PWM (4), I2S, SPI, JTAG, ADC (4-ch. 12-bit)	I2C (2), GPIO (28), UART (2), PWM (28), I2S, SPI, ADC (4-ch, 12-bit)	I2C (2), GPIO (28), UART (2), PWM (28), I2S, SPI, ADC (4- ch, 12-bit), IrDA, BLE	I2C (2), GPIO (28), UART (2), PWM (28), I2S, SPI, ADC (4- ch, 12-bit), IrDA, BLE
SiP Inbuilt Memory / Storage	64KB RAM, 4MB Flash	128MB DDR2 32MB Flash	352KB SRAM; 64KB boot ROM; 2MB Flash	Embedded 352KB SRAM; 64KB boot ROM; 4MB Flash	Embedded 352KB SRAM; 64KB boot ROM; 4MB Flash
Dimensions (L x W x H)	20 x 15 x 2.45mm	24 x 32 x 2.5mm	18 x 18 x 1.7mm	18 x 18 x 1.6mm	18 x 18 x 1.6mm
Antenna	On board PCB	X (MHF4 connector)	X (MHF4 connector)	X (MHF4 connector)	X (MHF4 connector)
Remark	MP	MP	MP	MP	MP