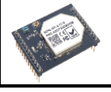
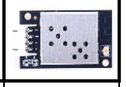
High-Flying Embedded Wi-Fi Module Product Y2018

	High Performance Series					Low Power Series														
	MTK AP Series			MTK AP SOC Series		HF-MC101/HF-MC102+MTK Series					HF-MC300 SOC Series					RDA SOC Series				
	HF-A11	HF-A11-SMT	HF-A12	HF-A21	HF-A21-SMT	HF-LPB100	HF-LPT100	HF-LPT100F	HF-LPT200	HF-LPB105	HF-LPB120	HF-LPT120	HF-LPT120A	HF-LPT220	HF-LPB125	HF-LPB130	HF-LPT130A	HF-LPT230	HF-LPT330	HF-LPT135
Product Picture																				
Production	2011/Q3	2011/Q3	2011/Q3	2016/Q1(New)	2015/Q1(New)	2013/Q1	2013/Q3	2015/Q2(New)	2013/Q4	2015/Q3(New)	2015/Q4	2015/Q4	2015/Q4	2015/Q4	2015/Q4	2017/Q3	2017/Q3	2017/Q3	2018/Q1	2018/Q2
PhaseOut						2020/Q1	2020/Q1	2020/Q1	2020/Q1	2020/Q1				2020/Q1						
Replace Module	HF-A21	HF-A21-SMT				HF-LPB120 HF-LPB130	HF-LPT120A HF-LPT130A	HF-LPT120A HF-LPT130A	HF-LPT230	HF-LPB125 HF-LPB135				HF-LPT230						
Recommended				√	√						√	√	√			√	√	√	√	√
Key Feature	Hardware AP Solution Ethernet	Hardware AP Solution Ethernet	Hardware AP Solution 2 x Ethernet	Hardware AP Solution Ethernet SDK Support Lower Price	Hardware AP Solution Ethernet SDK Support Lower Price	Low Power SDK Support SmartLink Config	Low Power SDK Support SmartLink Config Small Size	Low Power SDK Support SmartLink Config Small Size Strong Signal Strength	Low Power SDK Support SmartLink Config Small SMT Size	Low Power SDK Support SmartLink Config 5V Support	Low Power SDK Support SmartLink Config	Low Power SDK Support SmartLink Config Small Size	Low Power SDK Support SmartLink Config Small Size Strong Signal Strength	Low Power SDK Support SmartLink Config Small SMT Size	Low Power SDK Support SmartLink Config 5V Support	Low Power SDK Support SmartLink Config	Low Power SDK Support SmartLink Config Small Size	Low Power SDK Support SmartLink Config Small Size Strong Signal Strength	Low Power SDK Support SmartLink Config Small Size Strong Signal Strength	Low Power SDK Support SmartLink Config Small Size
Processor	MIPS MTK	MIPS MTK	MIPS MTK	MIPS MTK 7688 SOC	MIPS MTK 7688 SOC	HF-MC101+MTK	HF-MC101+MTK	HF-MC101+MTK	HF-MC101+MTK	HF-MC101+MTK	HF-MC300 SOC	HF-MC300 SOC	HF-MC300 SOC	HF-MC300 SOC	HF-MC300 SOC	Cortex M4 RDA SOC	Cortex M4 RDA SOC	Cortex M4 RDA SOC	Cortex M4 RDA SOC	Cortex M4 RDA SOC
Basic Frequency	380MHz	380MHz	380MHz	380MHz	380MHz	96MHz	96MHz	96MHz	96MHz	96MHz	96MHz	96MHz	96MHz	96MHz	96MHz	160MHz	160MHz	160MHz	160MHz	160MHz
Operating System	Ecos	Ecos	Ecos	Ecos	Ecos	FreeRTOS	FreeRTOS	FreeRTOS	FreeRTOS	FreeRTOS	Contiki	Contiki	Contiki	Contiki	Contiki	mbed	mbed	mbed	mbed	mbed
Wi-Fi Standard	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn	802.11bgn
Certification	CE/FCC/TELEC	CE/FCC	CE/FCC	CE/FCC	CE/FCC	CE/FCC/SRRC /TELEC	CE/FCC/SRRC	CE/FCC/SRRC	CE/FCC	CE/FCC	CE/FCC/RoHS SRRC/Reach		CE/FCC/SRRC RoHS	CE/FCC/SRRC RoHS	CE/FCC/SRRC RoHS	CE/FCC/RoHS SRRC	CE/FCC/RoHS SRRC	CE/FCC/RoHS SRRC	TBD	TBD
Temp. Range	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85	-40~+85	-20~+85	-20~+85	-20~+85	-20~+85	-20~+85	-40~+125	-40~+125	-40~+125	-40~+125	-40~+125
Internal Antenna	√	√	√	√	√	√		√	√	√	√	√	√	√	√	√	√	√	√	√
I-PEX Connector	√	√	√	√	√	√	√	√	RF Pad	√	√	√		RF Pad	√	√	√			√
Size (mm)	25×40×8	25×40×3	45 x 32 x 8	25×40×8	25×40×3	23.1×32.8×3.45	22x13.5x6	22x13.5x6	22x13.5x3	30.5x45.7x3.45	23.1×32.8×3.45	22x13.5x6	22x13.5x6	22x13.5x3	23.1×32.8×3.45	23.1×32.8×3.45	22x13.5x6	22x13.5x3	24x16x3mm	30.5x45.7x3.45
Package Type	DIP2x7	SMT26	DIP2x12	DIP2x7	SMT26	SMT48	DIP10	DIP10	SMT17	1x4 Connector	SMT34	DIP10	DIP10	SMT17	2x4 Connector	SMT34	DIP10	SMT17	SMT16	2x4 Connector
Work Voltage	3.3V	3.3V	3.3V	3.3V	3.3V	2.8~3.6V	2.8~3.6V	2.8~3.6V	2.8~3.6V	5V	2.95~3.6V	2.95~3.6V	2.95~3.6V	2.95~3.6V	5V	2.9~4.2V	2.9~4.2V	2.9~4.2V	2.9~4.2V	5V
Current @No data	~180mA	~180mA	~180mA	~170mA	~170mA	~12mA	~12mA	~12mA	~12mA	~12mA	~30mA	~30mA	~30mA	~30mA	~30mA	~30mA	~30mA	~30mA	~30mA	~30mA
Current @Tx Peak	~400mA	~400mA	~400mA	~400mA	~400mA	~300mA	~300mA	~300mA	~300mA	~300mA	~280mA	~280mA	~280mA	~280mA	~280mA	~280mA	~280mA	~280mA	~280mA	~280mA
Resource-Flash	1MB/2MB	1MB/2MB	1MB/2MB	2MB	2MB	2MB	2MB	2MB	1MB/2MB	2MB	2MB	2MB	2MB	2MB	2MB	1MB/4MB	1MB/4MB	1MB/4MB	1MB/4MB	1MB/4MB
Resource-RAM	>1MB	>1MB	>1MB	8MB	8MB	128KB	128KB	128KB	128KB	128KB	192KB	192KB	192KB	192KB	192KB	352KB/448KB	352KB/448KB	352KB/448KB	352KB/448KB	352KB/448KB
Interface-UART	1	2	2	1	2	2	1	1	1	1	2	2	2	2	2	2	2	2	2	2
Interface-PWM						8	3	5	4							5	5	5	5	
Interface-SPI						1			1							1		1	1	
Interface-Ethernet	√	√	√	√	√															
Interface-GPIO	√	√	√	√	√	20	6	8	11	√	√ (8)	√ (5)	√ (5)	√ (8)		√ (15)	√ (5)	√ (11)	√ (5)	
Interface-A/D						√ (6)	√ (2)	√ (2)	√ (4)	√										
AP Mode	√ (Max 20 STA)	√ (Max 20 STA)	√ (Max 20 STA)	√ (Max 20 STA)	√ (Max 20 STA)	√ (Max 2 STA)	√ (Max 2 STA)	√ (Max 2 STA)	√ (Max 2 STA)	√ (Max 2 STA)	√ (Max 4 STA)	√ (Max 4 STA)	√ (Max 4 STA)	√ (Max 4 STA)	√ (Max 4 STA)	√ (Max 8 STA)	√ (Max 8 STA)	√ (Max 8 STA)	√ (Max 8 STA)	√ (Max 8 STA)
STA Mode	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
AP+STA Mode	√	√	√	√	√	√	√	√	√	√						√	√	√	√	√
Wi-Fi Repeater	√	√	√	√	√															
WPS Function						√	√	√	√	√						√ (2018/Q2)	√ (2018/Q2)	√ (2018/Q2)	√ (2018/Q2)	√ (2018/Q2)
Web Server	√	√	√	√	√	√	√	√	√ (2MB Flash)	√	√	√	√	√	√	√ (1MB/4MB Different)	√ (1MB/4MB Different)	√ (1MB/4MB Different)	√ (1MB/4MB Different)	√ (1MB/4MB Different)
OTA Upgrade	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Smart Configure SmartLink V7.X APP						√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Airkiss Configure						√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
SDK Support				√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√