HF2211A

Serial Server Device User Manual

V 1.1



Overview of Characteristic

- MIPS MCU with 4MB Flash and 8MB SRAM. Run on eCos
- Support TCP/IP/Telnet /Modbus TCP Protocol
- Support RS232/RS422/RS485 to Ethernet/Wi-Fi Conversion, Serial Speed Upto 230400 bps
- Support STA/AP/AP+STA Mode
- Support Router or Bridge Network Working Mode.
- Support Easy Configuration Through a Web Interface or PC IOTService Tool
- Support Security Protocol Such As TLS/AES/DES3
- Support Web OTA Wirelss Upgrade
- ♦ Wide DC Input 5~36VDC
- Size: 95 x 65 x 25 mm (L x W x H)

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HISTORY

Ed. V1.0	08- 16-2021	First Version
Ed. V1.0	08- 16-2021	First Version

Ed. V1.1 05- 10-2022 Revision Version



1. PRODUCT OVERVIEW

1.1. General Description

The HF2211A provides RS232/RS485/RS422 interface to Ethernet/Wi-Fi connectivity to web enable any device. The HF2211A integrate TCP/IP controller, memory, 10/ 100M Ethernet transceiver, high-speed serial port and integrates a fully developed TCP/IP network stack and ECos OS. The HF2211A also includes an embedded web server used to remotely configure, monitor, or troubleshoot the attached device.

The HF2211A using highly integrated hardware and software platform. It has been optimized for all kinds of applications in the industrial control, smart grid, personal medical application and remote control that have lower data rates, and transmit or receive data on an infrequent basis.

The HF2211A integrates all serial to Ethernet functionality with 95 x 65 x 25mm size.

HF2211A is the substitute type of HF2211, software function is the same with HF2211

1.2. Device Paremeters

Table 1. HF2211A Technical Specifications

Item	Parameters		
System Information			
Processor/ Frequency	MIPS/320MHz		
Flash/ SDRAM	4MB/8MB		
Operating System	eCos		
Ethernet Port			
Port Number	1 RJ45 1 WAN/ LAN switchable		
Interface Standard	10/ 100 Base-T Auto-Negotiation		
Protection	8KV Isolation		
Transformer	Integrated		
Network Protocol	IP, TCP, UDP, DHCP, DNS, HTTP Server/Client, ARP, BOOTP, AutoIP, ICMP, Web socket, Telnet, uPNP, NTP, Modbus TCP		
Security Protocol	TLS v 1.2 AES 128Bit DES3		
Wi-Fi Interface			
Standard	802. 1 1 b/g/n		
Frequency	2.412GHz-2.484GHz		
Network Mode	STA/AP/STA+AP		
Security	WEP/ WPAPSK/ WPA2 PSK		
Encryption	WEP64/WEP128/TKIP/ AES		
Tx Power	802. 1 1b: +20dBm (Max.)		

	802 . 11g: + 18dBm (Max.)		
	802 1 1n: + 15dBm (Max)		
Rx Sensitive	802. 1 1b: -89dBm		
	802. 11g: -81dBm		
	802 1 1n: -71dBm		
Antenna	3dBi Stick Antenna		
Serial Port			
Port Number	1 RS232/RS485/RS422		
	RS232: DB9		
Interface Standard	RS485/RS422: 5.08mm connector		
	Support one channel of RS232/RS422/RS485.		
Data Bits	8		
Stop Bit	1,2		
Check Bit	None, Even, Odd		
Baud Rate	TTL: 2400 bps~230400 bps		
	No Flow Control		
Flow Control	Hardware RTS / CTS, DSR / DTR (RS232) flow control is not		
	supported		
Software Xon/ Xoff flow control			
Software			
Web Pages	Http Web Configuration		
~	Customization of HTTP Web Pages		
	Web		
Configuration	XMI import		
oomgalation			
	IOTService PC Software		
Firmware Upgrade	Web		
Basic Parameter			
Size	95 x 65 x 25 mm		
Operating Temp.	-25 ~ 85°C		
Storage Temp.	-45 ~ 105°C, 5 ~ 95% RH (no condensation)		
Input Voltage	5~36VDC		
Working Current	~200mA		
Power	<700mW		

1.3. Key Application

The HF2211A device connects serial device to Ethernet networks using the TCP/IP protocol:

- Remote equipment monitoring
- Asset tracking and telemetry
- Security Application
- Industrial sensors and controls
- Medical devices
- ATM machines
- Data collection devices
- Universal Power Supply (UPS) management units
- Telecommunications equipment
- Data display devices



- Handheld instruments
- Modems
- Time/attendance clocks and terminals



2. HARDWARE INTRODUCTION

The HF2211A unit is a complete solution for serial port device connecting to network. This powerful device supports a 10/ 100BASE-T Ethernet connection, a reliable and proven operating system stored in flash memory, an embedded web server, a full TCP/IP protocol stack, and standards-based (AES) encryption.

2.1. Interface Definition



Figure 2. HF2211A Interface



Function	Name	Description
External Interface	RJ45 Ethernet	10/ 100M Ethernet Default is WAN function in AP mode (Can be configured to LAN Function), connect to router LAN port for network access. In STA mode, it works in LAN function.
	SMA	Antenna SMA Interface
	RS232	RS232 Communication
	RS485/RS422	RS485/RS422 Communicaton
	Earth	Protect Earth
	DC Input	DC Power 5~36V
LED		Internal Power Supply Indicator
Indicator	Power	On: Power is OK
		Off: Power is NG
	Link	 Network Connection Indicator On: Include the following condition. Ethernt 2 connection OK Wi-Fi STA connect to AP Wi-Fi AP being connected by other STA device Off: No network connection
	Active	Data transfer Indicator On : Data is transfering. Off: No data transfer
Button	Reload	Restore to factory setting Long press this button for 4 seconds and loose it to restore parameters to factory setting.
Switch	Protect	Device parameter protect On: Enable protect, working parameter can not be modified. Off: Disable protect

Table 2. HF2211A Interface Definition

2.2. RS232 Interface

Device serial port is male(needle), RS232 voltage level(can connect to PC directly), Pin Order is cosistent with PC COM port. Use cross Cable connected with PC(2-3 cross, 7-8 cross, 5-5 direct, 7-8 no connection), see the following table for pin defination.



Figure 4. RS232 Pin Defination(Male/Needle Type)

Table 3. RS232 Interface

Pin Number	Name	Description



Pin Number	Name	Description
2	RXD	Receive Data
3	TXD	Send Data
5	GND	GND
7	RTS	Request to Send
8	CTS	Clear to Send

2.3. RS485 Interface

RS485 use two wire links, A(DATA+), B(DATA-). Connect A(+) to A(+), B(-) to B(-) for communication. The RS485 interface support maximum 32 485 device, special hardware version can support max 255 device. The cable maximum length is 1200 meters. Need to add 1200hm terminal resistor for over 300 meters.

2.4. RS422 Interface

Name	Description
TX+	Transfer Data+
TX-	Transfer Data-
RX+	Receive Data+
RX-	Receive Data-



Figure 5. HF2211A RS422 Connection

2.5. RJ45 Interface

Ethernet port is 10M/ 100M adaptive, support AUTO MDI/MDIX which means it support direct connecting to PC with Ethernet cable.



Figure 6. RJ45 Pin Defination



Pin Number	Name	Description
1	TX+	Transfer Data+
2	TX-	Transfer Data-
3	RX+	Receive Data+
4	PHY-VCC	Transformer Tap Voltage
5	PHY-VCC	Transformer Tap Voltage
6	RX-	Receive Data-
7	N.C.	None Connect
8	N.C.	None Connect

Table 4. RJ45 Interface

2.6. Mechanical Size

The dimensions of HF2211A are defined as following picture (mm):



Figure 7. HF2211A Mechanical Dimension

2.7. Rail Mounting

We support to provide rail for mounting as the following picture.





Figure 8. HF2211A Rail

2.8. Order Information

HF2211A is defined as following:



Figure 9. HF2211A Product Order Information



3. NETWORK STRUCTURE

3.1. Wireless Network

HF2211A can be set as a wireless STA and AP as well. And logically, it supports two wireless interfaces, one is used as STA and the other is AP. Other STA devices can join into the wireless network through AP interface. So the it can provide flexible networking method and network topology. Functions is as follow:

GPIO	Processing	WiFi Driver	
100M Eth	Program	AP	WIFI PHY
UART		STA	

Figure 1 1. HF2211A Function Structure

< Introductions>

AP: Wireless access point which is the central joint. Usually, wireless router is a AP, other STA devices can connect with AP to join the network.

STA: Wireless station which is terminal of a wireless network. Such as laptop and pad etc.

3.1.1. AP Network

HF2211A can construct a wireless network as AP. All the STA devices will consider the AP as the centre of the wireless network. The mutual communication can be transponded by AP, shown as follow:





Figure 12. General AP Network

3.1.2. STA Wireless Network

Take the following picture as example. When router works in AP mode, HF2211A connects to the user's devices by RS232/RS485 interface. In this topology, the whole wireless network can be easily stretched.





Figure 13. STA Application

3.1.3. AP+STA Wireless Network

HF2211A can support AP+STA method. It can support AP and STA interface at the same time. Shown as follow:





Figure 14. AP+STA Wireless Network

In this picture, HF2211A open the AP+STA function and the STA interface can be connected to the remote server by the router. Similarly, the AP interface can also be used. Phone/PAD can be connected to the AP interface and to control the serial devices or set itself.

Through AP+STA function, it is convenient to use Phone/PAD to monitor the user's devices and not change its original settings.

Through AP+STA function, it is convenient to configure the product. And it solves the problem that the formal product can only configure by serial port.

Notes that:

When the AP+STA function is opened, the STA interface needs to connect to other router. Otherwise, STA interface will endlessly scan the router information nearby. When it is scanning, it will bring bad effects to the AP interface, like losing data etc.

AP and STA parts must set to the different sub-network for the product working as APSTA mode.

3.1.4. IOTService Software

Open the IOTService after connect to the AP hotspot generated by HF2211A or connect to Product Ethernet port to PC, then configure the parameter.

System		SOCKET		WIFI	
User:	admin	SOCKET Name:	netp 💌	Mode:	AP
Password:	admin	Protocol:	TCP-SERVER	AP SSID:	STA
lostName:	Eport-HF2211	Server Addr.	0000	AP Key:	APSTA
DHCP:	Enable 💌	Server Port		STA SSID:	
P Address:		Local Port	8899	STA Key:	
late Way:		Keen Alter	0000	Sc	an
INS:	10.10.100.254	Time Out		-	
letwork Mode:	Router	Rout	[uart]		
JART			1.20		
UART No:	UART 1 +	Buffer Size:	8192		
Baudrate:	115200 💌	New SOCKET	SOCKET Del		
Data Bits:	8			Confirm	Cancel
Stop Bits:	1	LAN			
Parity:	NONE	IP Address:	10.10.100.254	Export	VirPath
Flow Control:	Half-Duples -	Masic	255 255 255 0	Import	Detail
				and the second se	Committee and the second second second

Figure 16. Configure Wi-Fi Parameter

Scan

Select	Channel	SSID	MAC Address	RSSI	Has Key
0	11	Sam401	D4:EE:07:2D:14:1E	100	Yes
0	10	ChinaNet-yRMx	38:E3:C5:A2:87:D5	100	Yes
0	11	UPGRADE-AP	20:DC:E6:48:35:9E	39	Yes
0	6	xiaoheizi	B0:95:8E:06:CB:16	29	Yes
0	11	Caoyu	78:96:82:A2:C6:A2	0	Yes
0	0	Caoyu		0	Yes

3.1.5. Webpage Configuration

Use PC to connect with HF2211A through its AP hotspot or Ethernet connection. Input the default IP(10.10.100.254, default username and password: admin/admin) to login the webpage to configure the parameter.

×





「「「「「「「」」」				
STATUS	System Settings Charge the device system settings			
YSTEM SETTINGS	Authentication			
SERIAL PORT SETTINGS	User Name	admin		
OMMUNICATION SETTINGS	Password	1000		
USTOM SETTINGS	Network Information			
ITHERS	Host Name	Eport-HF2211		
	Network Mode	Router		
	DHCP	100		
	DNS	10.10.100.254		
	WiFi Information			
	WiFi Mode	STA	•	
	STA SSID	Sam401		
	STA KEY	gorgydra		
		Scan		

Figure 18. Configure the Wi-Fi Parameter

WIFI Mode STA SSID STA KEY		STA .					
		Sam401 gongyuhui					
	20:DC:E6:48:35:9E	UPGRADE-AP	44	11	V	0	
	80-95-8E-05-CB-16	xiaoheizi	29	6	V	0	
8	00.55.00.00.00.10						
E F	78:A1:06:FF:03:AA	TP-LINK_FF03AA	15	1	V	0	
E E E	78:A1:06:FF:03:AA 8C:A6:DF:9C:16:CF	TP-LINK_FF03AA	15 10	1	v v	0	
E	78:A1:06:FF:03:AA 8C:A6:DF:9C:16:CF	TP-LINK_FF03AA 1 Caoyu	15 10 0	1 1 0	√ √ √	0	
E C	78:A1:06:FF.03:AA 8C:A6:DF:9C:16:CF 14:75:90:14:FC:90	TP-LINK_FF03AA 1 Caoyu TP-LINK_FC90	15 10 0	1 1 0 6	4 4 4 4	0	
2 1 1 1 1 1 1 1 1	78:A1:06:FF:03:AA 8C:A6:DF:9C:16:CF 14:75:90:14:FC:90 78:96:82:A2:C6:A2	TP-LINK_FF03AA 1 Caoyu TP-LINK_FC90 Caoyu	15 10 0 0	1 1 0 6 11	V V V V V	0 0 0 0 0 0 0 0	
2 3 5 5 7	78:A1:06:FF:03:AA 8C:A6:DF:9C:16:CF 14:75:90:14:FC:90 78:96:82:A2:C6:A2 D4:EE:07:2D:14:1E	TP-LINK_FF03AA 1 Caoyu TP-LINK_FC90 Caoyu Sam401	15 10 0 0 100	1 1 0 6 11 11	V V V V V	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

Figure 19. STA Scan

3.2. Ethernet Interface Function

HF2211A provides with a 100M Ethernet interface. Through the 100M Ethernet interface, user can achieve the connection among WIFI, serial port and Ethernet port.

3.2.1. Ethernet Port with Wi-Fi



Figure 20. Ethernet Interface Function

HF2211A servers as APSTA and generate a central network. The IP addresses of all the devices and module's are in the same network segment.

Note:

If product works in AP mode, then the Ethernet is working as WAN mode, PC will use Auto-IP to set its IP when connect via Ethernet. Better to change via Wi-Fi, then the PC and other devices are all in same subnetwork.(10.10.100.xxx)





3.2.2. Ethernet Interface Function(Router)



Figure 21. Ethernet Interface Function(Router)

The HF2211A device Ethernet interface work in router mode. When connect to router, it will get IP address from router(as picture 192. 168. 1. 100). The product itself generate a subnet(10. 10. 100.254 default). The device from the Ethernet interface is assigned with IP address by module (10.10.100.101). Then the device and the PC1 are in the same subnet for network communication. A connection fro PC1 to PC2, but PC2 cannot actively connect to PC1.

System		SOCKET		WIFI	
Jser:	admin	SOCKET Name:	netp 💌	Mode:	AP 💌
assword:	admin	Protocol:	TCP-SERVER	AP SSID:	HF2211_73C0
lostName:	Eport-HF2211	Server Addr.	(0.0.0.0)	AP Key:	
HCP:	Enable 💌	Server Port:		STA SSID:	
Address		Local Port	8899	STA Key:	
ate Way:		Keep Alive:		S	can
NS:	10.10.100.254	Time Out			
etwork Mode	Router				
ADT	Router	Rout	uart 💌		
-201	Bridge	Buffer Size:	8192		
JARI ND	Coll 1				
Baudrate:	115200 -	New SOCKET	SOCKET Del		
)ata Bits:	8 👻			Confirm	Cancel
itop Bits:	1 💌	LAN		Commit	- Councer
arity:	NONE	IP Address:	10.10.100.254	Export	VirPath
	Light Dunlag	Mask	255 255 255 0	Import	Detail
Flow Control:	man-Duplex		And a second sec		and the second second



(<u>р</u> нғ2211 ж				🖾 – 🗆 ×
← → 〇 ◎ 不安全 192.168.0.14	44/system.html Change the device syste	en setungs		\$ I
SYSTEM SETTINGS	Authentication			Helper
SERIAL PORT SETTINGS	User Name	admin		Network working mode
COMMUNICATION SETTINGS	Password			
CUSTOM SETTINGS	Network Informat	lion		
OTHERS	Host Name	Eport-HF2211		
	Network Mode	Router	•	
	W/ N Settinge	Router Bridge		-

3.2.3. Ethernet Port Function(Bridge)



Figure 22. Ethernet Port Function(Bridge)

The HF2211A device Ethernet interface work in router mode. When connect to router, it will get IP address from router(as picture 192. 168. 1. 101). AT the whole network, the product is like an invisible device. PC1 ad PC2 can communicated mutually without any constraint. But if product needs to connect with other devices, it needs set LAN IP address(192. 168. 1. 10 as picture)

Notes:

Webpage, IOTService, or Cli command to set working mode, by default is router mode. It need reboot when change its working mode.



System		SOCKET		WIFI	
User:	admin	SOCKET Name:	netp 💌	Mode:	STA
Password:	admin	Protocol:	TCP-SERVER	AP SSID:	HF2211_73C
HostName:	Eport-HF2211	Server Addr.	0000	АР Кеу:	
DHCP:	Qiisanis -	Server Port		STA SSID:	UPGRADE-AP_aaa
P Address:	10.10.100.10	Local Port	8000	STA Key:	1234567
Gate Way:	10.10.100.254	Kaon Alivo	0093		Scan
DNS:	10.10.100.254	Time Out		-	
Network Mode:	Bridge 💌	Rout	luart le		
UART			Hole C		
UART No:	UNRC 1	Buffer Size:	8192		
Baudrate:	115200 💌	New SOCKET	SOCKET Del		
Data Bits:	8			Confirm	Cancel
Stop Bits:	1	LAN		Direct	10-Dath
Parity:	NONE	IP Address:	192.168.1.10	export	virrath
Flow Control:	Half-Duplex -	Masic	255.255.255.0	Import	Detail
	and the second s	1000000	Participant and a second se		



4. FUNCTION DESCRIPTION

Refer to "IOT_ Device_ Series_ Software_ Funtion" document for more detailed function.

FCC Regulations:

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - -Reorient or relocate the receiving antenna.
 - -Increase the separation between the equipment and receiver.
 - -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - -Consult the dealer or an experienced radio/ TV technician for help.
- Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.



APPENDIX A: REFERENCES

A.1 . Test Tools

IOTService Configure Software:

http://www.hi-flying.com/download-center-1/applications-1/download-item-iotservice

UART 、 Network Test software:

http://www.hi-flying.com/index.php?route=download/category&path=1_4



APPENDIX B: CONTACT INFORMATION

Web: <u>www.iotworkshop.com</u> or <u>www.hi-flying.com</u>

Contact:

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