

Serial WiFi adapter – Industrial Advanced  
Part no. USCHF2211



This serial to Wi-Fi converter is our most advanced and solid converter available of this type. It does not only have a RS232 interface but also RS485 and RS422 interfaces. The RS232 is a standard DB9 port and the RS485 / RS422 are screw terminal headers for easy connection of single wires. It supports communication protocols for most modern wireless communication with many types of machinery such as CNC machines, weighing scales, laboratory equipment, printers, factory automation and most other industrial applications.

Please download the latest drivers and user guides for this product from:

[www.USconverters.com](http://www.USconverters.com)

**Default IP: 10.10.100.254**

User: **admin**, Password: **admin**

**Port: 8899**

The STA MAC address is the same as the AP MAC address +1.

The Ethernet LAN MAC is the same as the AP MAC+2.

The Ethernet WAN MAC address is the same as the AP MAC+3.

**Application Diagram A**



SPECIFICATIONS	
Model number	USCHF2211
Operating system	Virtual COM software for: Windows 11 32/64-bit, Windows 10 32/64-bit, Windows 8 32/64-bit, Windows 7 32/64-bit
Processor	Wport-W10, Ralink RT5350F CPU architecture: MIPS 24KEc, 320 MHz with 4MB Flash and 8MB SRAM. Running on eCos
Serial interface	
Serial RS232 driver	Sipex SP3232EEN
No. of serial ports	1 port RS-232 male DB9 1 port RS485 screw terminals 1 port RS422 screw terminals
RS-232 Signals	- TX, RX, RTS, CTS, GND - Parity: None, Odd, Even - Data bits : 7, 8 - Stop bits : 1, 2
Flow Control	RS232: Hardware (RTS/CTS), Software (XON/XOFF) RS485: Automatic Send Control, None
RS-485 Signals	Data+ , Data-, GND
Baud rates	300 - 230400 bps
Serial buffer size	Adjustable 0 to 1024 kb
Ethernet interface	
Ethernet port	RJ45, 10/100 Base-T Auto-Negotiation, 8KV isolation
Number of Ethernet ports	1
Protocols	TCP Server, TCP Client, UDP Client, UDP Server, HTTP Server/Client, DNS, DHCP, ARP, BOOTP, AutoIP, ICMP, Web socket, Telnet, uPNP, NTP, ModBus TCP
Wi-Fi interface	
Standard	802.11 b/g/n
Frequency	2.412GHz-2.484GHz
Network Mode	STA/AP/STA+AP
Security Protocol	TLS v1.2 AES 128Bit DES3
Security	WEP/WPA2PSK/WPA2PSK
Tx Power	802.11b: +20dBm (Max.) 802.11g: +18dBm (Max.) 802.11n: +15dBm (Max.)
Rx Sensitive	802.11b: -89dBm 802.11g: -81dBm 802.11n: -71dBm
Max number of clients. This is how many computers that can access the converter simultaneously	32 clients for each port in TCP mode.
Misc.	
Parameter management	Web-browser, Telnetd, software utility (over WiFi), CLI commands (through RS232 port)
Power	5 - 36VDC (<700mW) (Center +)
Operating Temp.	-13°F to 176°F (-25°C to 80°C)
Storage Temp.	-45 ~ 105°C, 5 ~ 95% RH (no condensation)
Working Current	~200mA
Antenna	3dBi di-pole antenna
Dimensions	95 x 65 x 25 mm
Approvals	CE, FCC, ROHS
Warranty	1 year Limited Warranty

**Included items:**

- ◆ USCHF2211 x 1
- ◆ Antenna x 1
- ◆ Serial cable, female/female (null modem) x 1
- ◆ Ethernet cable
- ◆ 100-240VAC/12VDC 1A power supply

**Indicator Lights**

Indicator	Function	Description
Pwr	Power on	Converter has power
Link	Network link	On when network is connected
Active	TX or RX	Flash when sending or receiving data

**Reset button:**

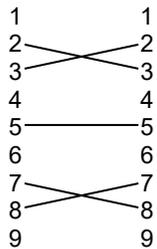
The reset button is used for resetting the converter back to factory settings. Depress the reset button for more than 5 seconds, then release the button. the converter will now re-boot back to default settings.

**Protection switch:**

When this switch is 'on' the parameters cannot be modified.



**Pin configuration (included DB9 female/female null-modem cable):**



**Pin configuration (DB9 connector):**

Pin no.	RS232 DB9 Male
1	-
2	RX
3	TX
4	-
5	GND
6	-
7	RTS
8	CTS
9	-

To access technical support, please visit the U.S. Converters website at: [www.USconverters.com](http://www.USconverters.com)  
 Here you will find:

- Latest drivers and updates for download
- Technical tips
- Documentation
- Configuration support
- and much more...

Feel free to contact our technical support team at [mail@usconverters.com](mailto:mail@usconverters.com) with any issues.

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