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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**

**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.


| SPECIFICATIONS | |
|---|---|
| Model number | USCHF2211 |
| Operating system | Virtual COM software for:<br>Windows 10 32/64-bit, Windows 8 32/64-bit, Windows 7 32/64-bit |
| Processor | Wport-W10, Ralink RT5350F<br>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<br>1 port RS485 screw terminals<br>1 port RS422 screw terminals |
| RS-232 Signals | - TX, RX, RTS, CTS, GND<br>- Parity: None, Odd, Even<br>- Data bits : 7, 8<br>- Stop bits : 1, 2 |
| Flow Control | RS232: Hardware (RTS/CTS), Software (XON/XOFF)<br>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<br>AES 128Bit<br>DES3 |
| Security | WEP/WPAPSK/WPA2PSK |
| Tx Power | 802.11b: +20dBm (Max.)<br>802.11g: +18dBm (Max.)<br>802.11n: +15dBm (Max.) |
| Rx Sensitive | 802.11b: -89dBm<br>802.11g: -81dBm<br>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 (mull modem) x 1
- Ethernet cable
- 100-240VAC/12VDC 1A power supply

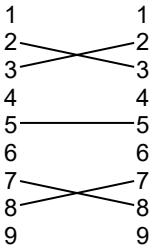
**Indicator Lights**

| 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
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 with any issues.