

sWiFi/all



Key Features

2.4GHz, 5GHz Dual Band

2.4GHz, 5GHz Dual Band IEEE 802.11 a/b/g/n Specification is supported.

Easy Configuration

Users can easily set up the equipment using the setup utility, sWiFiConfig.

COM Port Redirection (VCP)

Virtual serial port of network-connected sWiFi/all can be used like a COM port on a PC.

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Specifications are subject to change without notice.

Overview

sWiFi/all is a small-sized serial converter that provides Wireless Ethernet(WLAN) connectivity to equipment that supports serial communication(RS232/RS422/RS485). The Wireless specification of sWiFi/all is IEEE 802.11 a/b/g/n with dual-band Wi-Fi (2.4GHz/5GHz), which supports Peer to Peer and Station modes. It can be conveniently used with mode desired by the user. sWiFi/all also provides superior communication capabilities to utilize RS232 or RS422, RS485 up to 921.6Kbps with easy software settings, supports wireless communication encryption modes such as WEP, WPA-PSK, WPA2-PSK, and Enterprise.

sWiFi/all is a multi-functional converter that provides VCP Program(COM Redirector) for the use of connected serial devices without any program modifications to support remote control, monitoring and data communication of connected serial devices over the network, while providing outstanding security performance and reliability.

Specification


WiFi	Frequency	2,412 ~ 2,462MHz, 5,150 ~ 5,250MHz, 5,725 ~ 5,850MHz
	Standard	IEEE 802.11 a/b/g/n
	ANT	Dipole Antenna / Avg 1.5dBi/2.4GHz, -0.7dBi/5GHz
	Mode	Station, Peer to Peer
Serial	Port	1 Port DB9 (Female), RS232/422/485
	Speed	Max 921.6 Kbps
	Data bit	5, 6, 7, 8
	Stop bit	1, 2
	Parity bit	None, Even, Odd
	Flow Control	RTS/CTS
	Signals(RS232)	TXD, RXD, RTS, CTS, DTR, DSR, DCD
	Signals(RS422)	TXD+, TXD-, RXD+, RXD-
Signals(RS485)	TRXD+, TRXD-	
Hardware	Power Requirement	5V~12V 1A DC Input, Power Consumption: 2W

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	Power Connector	Outer: Φ 3.5mm, Internal:  Φ 1.35mm
	Size (W) x (L) x (H)	40.9(W) x 90.1(L) x 16.5(H)mm
	Weight	32.1g
	Operating Temperature	-40 ~ 85°C (-40 ~ 185°F)
	Humidity	Max 90% R.H
	LED	RDY(Yellow), TXD(Green), RXD(Red)
Software	OS	RTOS
	Protocols	COM Redirector, TCP Server/Client, UDP
	Security	WEP, WPA-PSK, WPA2-PSK, WPA-Enterprise, WPA2-Enterprise
	Support	TCP No-Delay Mode, TCP KeepAlive
	Utility	sWiFi Setup Utility(sWiFiConfig), VCP Utility(COM Redirector)
Ordering Information		sWiFi/all V1.0

Mode	Target Power [dBm]	Allowed Tolerance [dB]	Max Tune Up Power [dBm]	Measured Power [dBm]
b_Lowest_ANT 0	13	1	14	13.40
b_Middle_ANT 0	13	1	14	13.32
b_Highest_ANT 0	13	1	14	13.13
g_Lowest_ANT 0	18	2	20	18.03
g_Middle_ANT 0	18	2	20	18.09
g_Highest_ANT 0	18	2	20	18.00
n20_Lowest_ANT 0	18	2	20	19.19
n20_Middle_ANT 0	18	2	20	18.95
n20_Highest_ANT 0	18	2	20	18.84

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Mode	Target Power [dBm]	Allowed Tolerance [dB]	Max Tune Up Power [dBm]	Measured Power [dBm]
U-NII-1 / a_Lowest_ANT 0	9	2	11	9.97
U-NII-1 / a_Middle_ANT 0	9	2	11	10.25
U-NII-1 / a_Highest_ANT 0	9	2	11	10.38
U-NII-1 / n20_Lowest_ANT 0	9	2	11	9.44
U-NII-1 / n20_Middle_ANT 0	9	2	11	9.77
U-NII-1 / n20_Highest_ANT 0	9	2	11	10.02
U-NII-2A / a_Lowest_ANT 0	10	2	12	10.35
U-NII-2A / a_Middle_ANT 0	10	2	12	11.21
U-NII-2A / a_Highest_ANT 0	10	2	12	11.49
U-NII-2A / n20_Lowest_ANT 0	9	2	11	9.34
U-NII-2A / n20_Middle_ANT 0	9	2	11	10.28
U-NII-2A / n20_Highest_ANT 0	9	2	11	10.12
U-NII-2C / a_Lowest_ANT 0	9	2	11	10.52
U-NII-2C / a_Middle_ANT 0	9	2	11	9.80
U-NII-2C / a_Highest_ANT 0	9	2	11	9.16
U-NII-2C / n20_Lowest_ANT 0	8	2	10	9.51
U-NII-2C / n20_Middle_ANT 0	8	2	10	9.31
U-NII-2C / n20_Highest_ANT 0	8	2	10	8.70
U-NII-3 / a_Lowest_ANT 0	7	2	9	8.60
U-NII-3 / a_Middle_ANT 0	7	2	9	8.22
U-NII-3 / a_Highest_ANT 0	7	2	9	7.92
U-NII-3 / n20_Lowest_ANT 0	7	2	9	8.61
U-NII-3 / n20_Middle_ANT 0	7	2	9	7.85
U-NII-3 / n20_Highest_ANT 0	7	2	9	7.88

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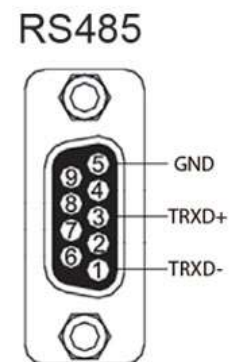
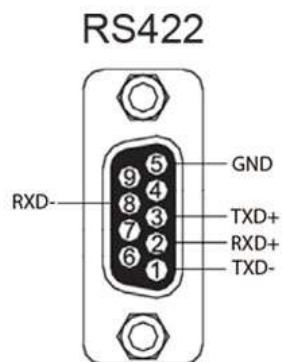
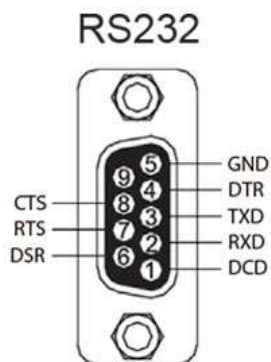
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Pin Specification



Pin No.	RS232	RS422	RS485
1	DCD	TXD-	TRXD-
2	RXD	RXD+	-
3	TXD	TXD+	TRXD+
4	DTR	-	-
5	GND	GND	GND
6	DSR	-	-
7	RTS	-	-
8	CTS	RXD-	-
9	-	-	-



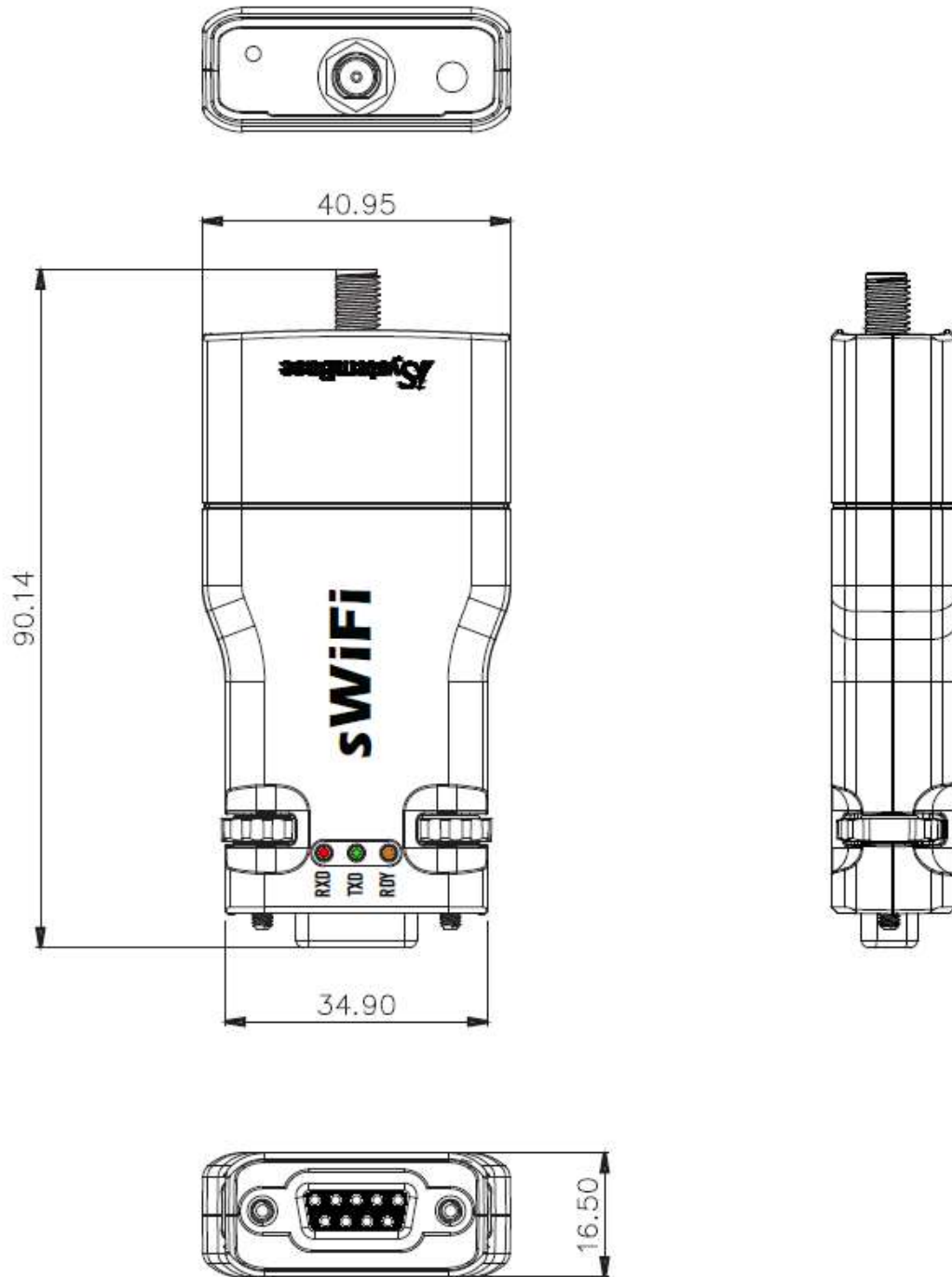
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Dimension



Unit: mm

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