



## IWAP-2000

# RS232/422/485 to Wi-Fi Adapter

It can operate in different serial port modes to meet users' various needs

### Key Features

- Fully compatible with 802.11b
- Simple ACSII command interface, over local UART and remote from TCP/IP client.
- Sustained data rates of >200 kbps.
- Security: WEP128, WPA-PSK, and WPA2-PSK (TKIP and AES) supported.
- Dip switches to switch between RS232/422/485 modes
- RS232 relieve charging (15mA) to extend battery life.
- Ultra-low power module with 40mA average RX, 120mA TX burst current usage.
- SMA connector to fit different antennas for various needs
- Internal rechargeable battery pack for fully stand-alone operation
- Embedded stacks with TCP/UDP/IP, sockets, no host or processor stacks required.
- ICMP, Telnet, TFTP, DHCP, FTP, UDP Time server clients.
- Flash memory for user code, API for user applications.
- FTP client "over the air" firmware upgrade.
- Battery-operating Time: up to 12 hours
- Real-time clock for data logging / time stamping.
- Up to 500Kbytes of Flash memory storage for data logs.

Hardware	
CPU	G2 Microsystems
Flash	512kb
External Ports	
Antenna	SMA connector
Serial Port	DB9 Female RS232/422/485 1200bps to 115200bps
Switches	
Slide Switch	Power on/off
DIP Switch 1	RS422/485 switch
DIP Switches 2	1. RS422/485 switch 2. RS232/485 switch
Power	
DC adapter	5V 1.5A
USB DC cable	Optional
Battery	720mAh Lithium Polymer, 12 hours operating time

LED Indicators	
RED	Link Status
GREEN/ORANGE	Power/Charging
YELLOW	Data
Environment & Safety	
Operation Temperature	-10 to 50 degree C
Storage Temperature	-20 to 60 degree C
Operating Humidity	0-95% non-condensing
EMI and Safety	CE / FCC Class A
Network	
IP Address	Fixed or DHCP
Supported Protocol	ICMP, Telnet, TFTP, DHCP, FTP, UDP Time server clients
Dimension	
Weight	100 g
Size	10.5 cm x 5 cm x 2.2 cm
Device Management	
Console Port	Serial or TCP/IP from client
F/W upgrade	FTP client "over the air"

Wireless	
IEEE Standard	802.11b
Operation mode	Client, Pier to Pier
Frequency	2402 ~ 2480 MHz
Modulation	DSSS (CCK-11, CCK-5.5, DQPSK-2, DBPSK-1)
Channel Interval	5 MHz
Security	WEP128, WPA-PSK, and WPA2-PSK
Number of channels	13
Transmission rate	1/2/5.5/11Mbps
Receive Sensitivity	-93dBm
Max TX Power	12dBm
Antenna	2dBi omni SMA
<b>Note</b>	(1) The operating range depends on the paired access point, and RF environment.
	(2) The operating time depends on the RF TX usage and RF environment.
	(3) Specifications subject to change