

The SWG-14TA is an embedded solution between TCP/IP and serial signal communications. The application includes Bar-code printer, Bar-code scanner, GPS-data logger, and mobile serial device. It allows any serial device to be connected to a new or existing wireless network, and offers wireless network interface (IEEE802.11g/b, 54Mbps) and one serial port.

EASY TO USE

Flexible configuration options enable SWG-14TA to be setup over Web browser, or other utility. It is deal embedded solution for any industrial and manufacturing automation with advanced wireless connectivity.

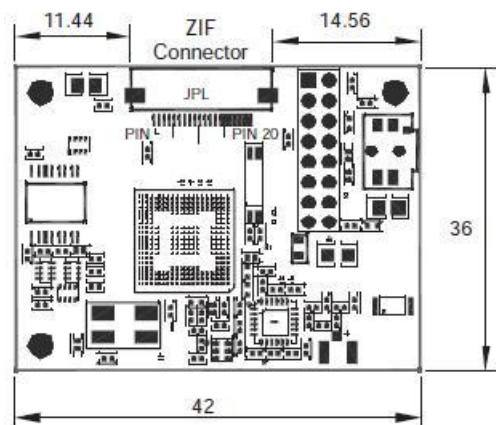
Virtual Com software provides existing Windows based applications to access serial devices by mapping to remote serial server over Wireless LAN.



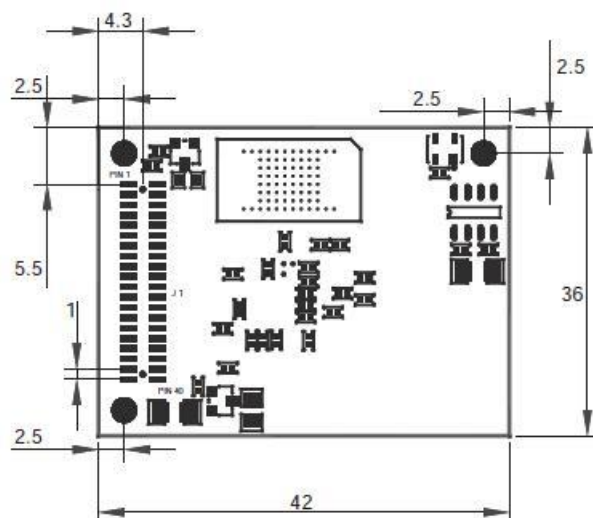
FEATURES

- Embedded Module for Wireless Serial Server
- One serial port, Quarter size with TTL interface (36 x 42 mm)
- IEEE 802.11g/b wireless standard with WEP, WPA-PSK & WPA2-PSK security
- Support UDP, TCP Server, TCP client protocols and Virtual COM mode
- Configure via built-in Web server, Telnet, CLI and Windows-based utilities
- Low power consumption

MECHANICAL DRAWING



Front Side



Bottom Side

Gemicom Technology Inc.

SPECIFICATIONS

CPU	Low power MIPS CPU core
System	8MB Flash, 2MB SRAM
WLAN standard	IEEE 802.11b/g
Security	WEP 64/128 bit data encryption, WPA-PSK, WPA2-PSK (TKIP/AES Encryption)
Modulation	CCK, DQPSK, DBPSK, OFDM (802.11g)
Tx Power	15 +/- 1.5 dBm (802.11b); 13 +/- 1.5 dBm (802.11g)
Rx Sensitivity	802.11g: -74 dBm @ 54 Mbps 802.11b: -87 dBm @ 11 Mbps -90 dBm @ 6 Mbps -93 dBm @ 1 Mbps
Transmission Distance	Up to 100 meters (open areas)
Topologies	Infrastructure, Ad-Hoc
Transmission rate	54 Mbps max. with auto fall back
Serial Communication	-Baud Rate: 110 ~ 230400 bps -Parity: Odd, Even, None, Mark, Space -Data Length: 7, 8 bits -Stop Bits: 1, 2 bits -Flow Control: None, Xon/Xoff (Software); RTS/CTS (Hardware) -Interface: One-port, 3V TTL interface,
Power	Input: DC 3.3V (Optional DC 5V)
Environment	Operating: -20~65 degree C, 5~95% RH Storage: -20~85 degree C, 5~95% RH
Dimension	42 (L) x 36 (W) mm
Software	Utility for Windows 98/2000/XP/2003 Virtual COM for Windows 98/2000/XP/2003/Vista/Linux
Configuration	Web browser, Windows utility
Support Protocol	ICMP, TCP, UDP, IP, DHCP Client, Telnet, SNMP, HTTP

*Specifications are subject to change without further notice.

TABLE FOR PIN ASSIGNMENTS

Table1 40 Pins connector Pin Assignments

Pin	Pin Name	Function Description
1	+3VCC	DC3V Power Output
2	+3VCC	DC3V Power Output
3	RTS	TTL / RS232 signal
4	TXD	TTL / RS232 signal
5	RXD	TTL / RS232 signal
6	GPIO5	Function Ready(user define)
7	GPIO6	Reserved
8	CTS	TTL / RS232 signal
9	GPIO7	Reserved
10	GPIO8	Function Ready(user define) / Run LED
11	GND	Power Input Ground
12	GND	Power Input Ground
13	Rest In	H/W Reset Input
14	GPIO9	Function Ready(user define) / AP state LED
15	VBATT	Battery Power Input(DC+3.3-5V)
16	VBATT	Battery Power Input(DC+3.3-5V)
17	Reserved	Reserved
18	GPIO10	Function Ready(user define) / COM TX / RX LED
19	GPIO11	Reserved
20	Reserved	Reserved
21	Reserved	Reserved
22	Reserved	Reserved
23	GND	Power Input Ground
24	GND	Power Input Ground
25	Reserved	Reserved
26	Reserved	Reserved
27	Reserved	Reserved
28	Reserved	Reserved
29	Reserved	Reserved
30	Reserved	Reserved
31	Reserved	Reserved
32	Reserved	Reserved
33	Reserved	Reserved
34	Reserved	Reserved
35	GPIO16	Function Ready(user define)
36	GPIO15	Function Ready(user define)
37	GPIO17	Function Ready(user define)
38	GPIO1	Function Ready(user define)
39	GPIO14	Function Ready(user define)
40	GPIO0	Function Ready(user define)

Table2 20 Pins ZIF connector Pin Assignments

Pin	Pin Name	Function Description
1	VBATT	Battery Power Input(DC+3.3-5V)
2	VBATT	Battery Power Input(DC+3.3-5V)
3	GPIO5	Reserved
4	GPIO8	Reserved
5	GPIO16	Reserved
6	GPIO9	Reserved
7	GND	Power Input Ground
8	GPIO 6	Reserved
9	Reserved	Reserved
10	CTX	TTL / RS232 signal
11	TXD	TTL / RS232 signal
12	Reserved	Reserved
13	RTS	TTL / RS232 signal
14	RXD	TTL / RS232 signal
15	Reserved	Reserved
16	GPIO17	Reserved
17	GPIO7	Reserved
18	Reserved	Reserved
19	GND	Power Input Ground
20	GND	Power Input Ground