

Connecting wireless networks for you

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USB Modem SWU-3000 series



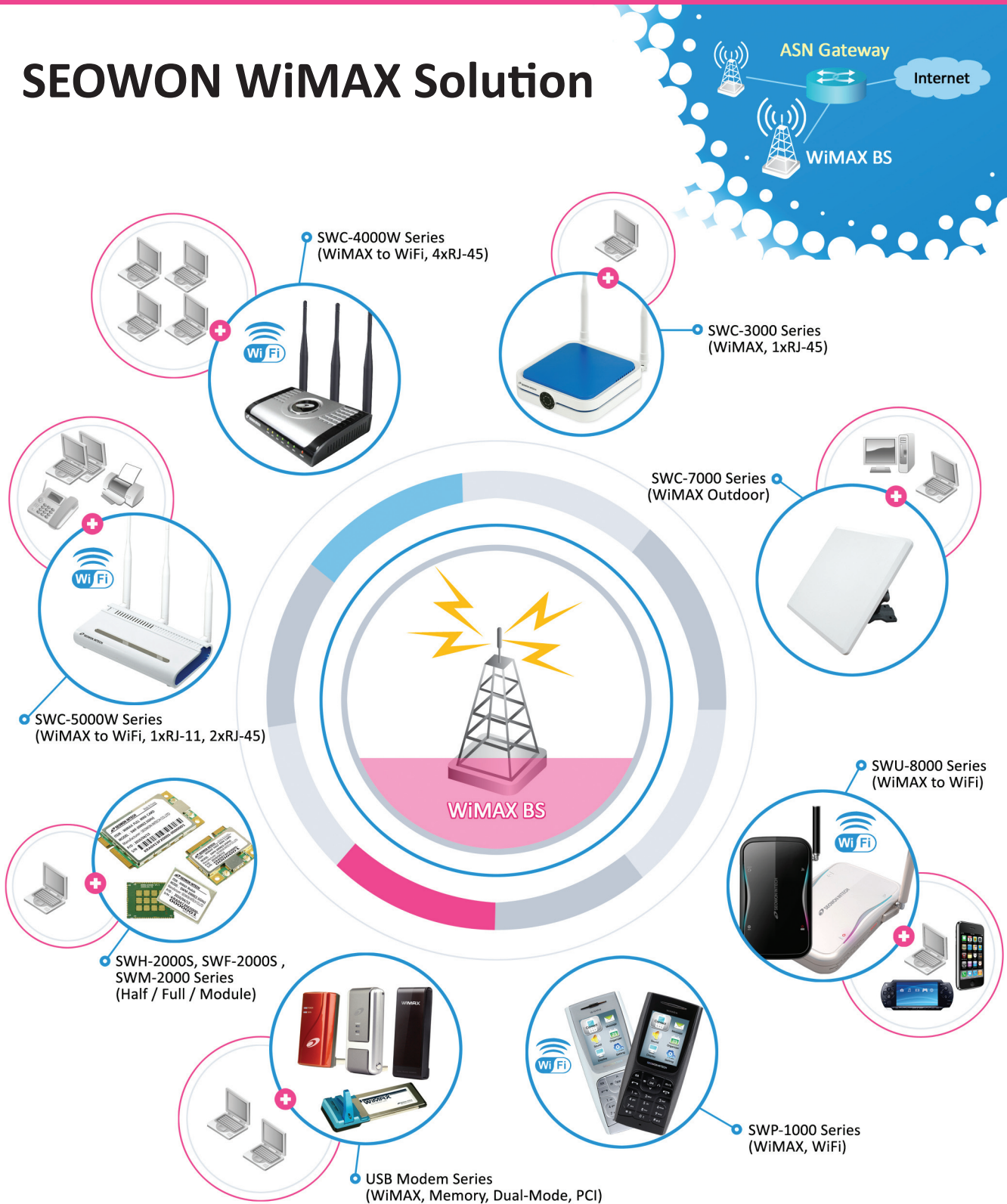
VoIP CPE SWC-5000W series



Mobile Phone SWP-1000 series



SEOWON WiMAX Solution



● USB Modem

- WiMAX (IEEE 802.16e-2005 Wave2) compliant
- MIMO support
- Air interface / Duplex : OFDMA / TDD
- Authentication : EAP-TLS / EAP-TTLS
- Auto Installation : Auto Plug-and-Play
- Interface : USB 2.0
- OS compatibility : Windows XP, Vista, 7, MAC, Linux



Item	Specification		
Model name	SWU - 3020A	SWU - 3120A	SWU - 3220A
	SWU - 3400AN		
Frequency band	2.3GHz (2.30 ~ 2.40GHz)	2.5GHz (2.49 ~ 2.69GHz)	3.5GHz (3.40 ~ 3.60GHz)
	Wide - Band (2.30 ~ 2.69GHz)		
Channel bandwidth	5, 8.75 & 10MHz	5 & 10MHz	3.5, 5, 7, 8.75 & 10MHz
Modulation	DL: QPSK, 16QAM, 64QAM, UL: QPSK, 16QAM		
Max. throughput	DL: 40Mbps, UL: 8Mbps		
MIMO	Matrix A (STC) & Matrix B		
Transmit power	Max. 23dBm		
Receiving sensitivity	-95dBm @ QPSK ½ CTC		
Dimension / Weight	31mm × 54mm × 15.5mm / 19.5g		

● USB Modem with memory storage

- WiMAX (IEEE 802.16e-2005 Wave2) compliant
- MIMO support
- Flash memory storage
- Air interface / Duplex : OFDMA / TDD
- Authentication : EAP-TLS / EAP-TTLS
- Auto Installation : Auto Plug-and-Play
- Interface : USB 2.0
- OS compatibility : Windows XP, Vista, 7, MAC, Linux



Item	Specification	
Model name	SWU - 2400	SWU - 2200
Frequency band	Wide - Band (2.30 ~ 2.69GHz)	3.5GHz (3.40 ~ 3.60GHz)
Channel bandwidth	5, 8.75 & 10MHz	3.5, 5, 7, 8.75 & 10MHz
Modulation	DL: QPSK, 16QAM, 64QAM, UL: QPSK, 16QAM	
Max. throughput	DL: 40Mbps, UL: 8Mbps	
MIMO	Matrix A (STC) & Matrix B	
Storage	2GB Nand Flash memory	
Transmit power	Max. 23dBm	
Receiving sensitivity	-95dBm @ QPSK ½ CTC	
Dimension / Weight	31.9mm × 66.5mm × 15mm / 24.5g	

● Dual Mode USB Modem

- WiMAX (IEEE 802.16e (Wave2) & WCDMA / 3GPP HSDPA) compliant
- MIMO support
- Duplex / Multiple Access : TDD / OFDMA & FDD / TDM / CDM
- Authentication : EAP-TLS / EAP-TTLS
- Interface : USB 2.0
- OS compatibility : Windows XP, Vista, 7, MAC, Linux



Item	Specification	
Model name	SWU - 6400	SWU - 6200
Frequency Range	Wide - Band (2.30 ~ 2.69GHz)	3.5GHz (3.40 ~ 3.60GHz)
	WCDMA / HSDPA (WCDMA 2100 or 1900) GSM / GPRS (GPRS / EDGE 900 or 1900)	
Channel Bandwidth	5, 8.75, 10MHz	3.5, 5, 7, 8.75, 10MHz
	HSDPA: 10MHz (Transmit/Receive Freq. Interval)	
Max Data Rate	WiMAX (DL: 40Mbps / UL: 8Mbps), HSDPA (DL: 3.6Mbps / UL: 384Kbps)	
MIMO	Matrix A (STC) & Matrix B	
Sensitivity	WiMAX (-95dBm @ QPSK ½ CTC) / HSDPA (Nominal -106.7dBm)	
Output Power	WiMAX: Max. 23dBm / HSDPA: Power Class 3(0.32W): 24.0dBm	
Antenna	Internal type for primary & RX diversity	
Dimension / Weight	35.5mm × 89mm × 12mm / 43.5g	

● Mobile Phone

- WiMAX (IEEE 802.16e-2005 Wave2, IEEE 802.11 b/g) compliant
- MIMO support
- WiMAX / WiFi mobile phone
- VoIP over WiMAX & WiFi
- Voice, SMS, MP3 etc.
- Air interface / Duplex : OFDMA / TDD
- Authentication : EAP-TLS / EAP-TTLS



Item	Specification		
Model name	SWP - 1000	SWP - 1100	SWP - 1200
Frequency band	2.3GHz (2.30 ~ 2.40GHz)	2.5GHz (2.49 ~ 2.69GHz)	3.5GHz (3.40 ~ 3.60GHz)
Channel bandwidth	5, 8.75 & 10MHz	5 & 10MHz	3.5, 5, 7, 8.75 & 10MHz
Modulation	DL: QPSK, 16QAM, 64QAM, UL: QPSK, 16QAM		
Max. throughput	DL: 40Mbps, UL: 8Mbps		
MIMO	Matrix A (STC) & Matrix B		
Features	Voice, SMS, MP3, Ring-tone etc.		
WiFi Security	WPA / WPA2 / WEP64 / WEP128		
WiFi Output Power	14~16dBm(CCK), 10~13dBm(OFDM)		
WiFi Rx Sensitivity	-84dBm @ 802.11b / -70dBm @ 802.11g		
Transmit power	Max. 23dBm		
Receiving sensitivity	-95dBm @ QPSK ½ CTC		
Dimension / Weight	51.6mm × 117mm × 17.5mm / 100.5g		

● Mobile Router

- WiMAX (IEEE 802.16e-2005 Wave2, IEEE 802.11 b/g) compliant
- MIMO support
- Air interface / Duplex : OFDMA / TDD
- Authentication : EAP-TLS / EAP-TTLS



Item	Specification	
Model name	SWU - 8400	SWU - 8200
Frequency band	Wide - Band (2.30 ~ 2.69GHz)	3.5GHz (3.40 ~ 3.60GHz)
Channel bandwidth	5, 8.75 & 10MHz	3.5, 5, 7, 8.75 & 10MHz
Modulation	DL: QPSK, 16QAM, 64QAM, UL: QPSK, 16QAM	
Max. throughput	DL: 40Mbps, UL: 8Mbps	
MIMO	Matrix A (STC) & Matrix B	
Transmit power	WiMAX : Max. 23dBm, WiFi : Max. 2dBm	
Receiving sensitivity	-95dBm @ QPSK ½ CTC	
Power	Battery 3.7V 2700mAh	
Antenna	Built-in antenna / External antenna (option)	
Environmental	Operating Temperature: -10 ~ +50 Degree Storage Temperature: -40 ~ +80 Degree, Humidity: 0 ~ 85% (non-condensing)	
Other	USB modem function supportable (Laptop connection through USB cable)	
Dimension	62mm × 106mm × 17mm	

● PCI Express Card

- WiMAX (IEEE 802.16e-2005 Wave2) compliant
- MIMO support
- Air interface / Duplex : OFDMA / TDD
- Authentication : EAP-TLS / EAP-TTLS
- Interface : Mini - PCI Express (USB 2.0)
- OS compatibility : Windows XP, Vista, 7, MAC, Linux



Item	Specification		
Model name	SWE - 1000	SWE - 1100	SWE - 1200
Frequency band	2.3GHz (2.30 ~ 2.40GHz)	2.5GHz (2.49 ~ 2.69GHz)	3.5GHz (3.40 ~ 3.60GHz)
Channel bandwidth	5, 8.75 & 10MHz	5 & 10MHz	3.5, 5, 7, 8.75 & 10MHz
Modulation	DL: QPSK, 16QAM, 64QAM, UL: QPSK, 16QAM		
Max. throughput	DL: 40Mbps, UL: 8Mbps		
MIMO	Matrix A (STC) & Matrix B		
Transmit power	Max. 23dBm		
Receiving sensitivity	-95dBm @ QPSK ½ CTC		
Dimension / Weight	34mm × 110mm × 15.6mm / 30g		

Single User CPE

- WiMAX (IEEE 802.16e-2005 Wave2) compliant
- MIMO support
- Gateway function between LAN and WiMAX
- Air interface / Duplex : OFDMA / TDD
- Authentication : EAP-TLS / EAP-TTLS
- Connectivity : 1 x 10/100 Base-T port (LAN)



Item	Specification		
Model name	SWC - 3000	SWC - 3100	SWC - 3200
Frequency band	2.3GHz (2.30 ~ 2.40GHz)	2.5GHz (2.49 ~ 2.69GHz)	3.5GHz (3.40 ~ 3.60GHz)
Channel bandwidth	5, 8.75 & 10MHz	5 & 10MHz	3.5, 5, 7, 8.75 & 10MHz
Modulation	DL: QPSK, 16QAM, 64QAM, UL: QPSK, 16QAM		
Max. throughput	DL: 15Mbps, UL: 4Mbps		
MIMO	Matrix A (STC) & Matrix B		
Transmit power	Max. 27dBm		
Receiving sensitivity	-95dBm @ QPSK ½ CTC		
Antenna	5dBi Gain (Omni - directional antenna)		
Dimension / Weight	145mm × 145mm × 39mm / 265g		

Multi User CPE

- WiMAX (IEEE 802.16e-2005 Wave2, IEEE 802.11b/g) compliant
- MIMO support
- Gateway function between LAN and WiMAX
- Air interface / Duplex : OFDMA / TDD
- Authentication : EAP-TLS / EAP-TTLS
- Connectivity : - 4 x 10/100 Base-T ports (LAN)
- 802.11b/g (WiFi)



Item	Specification		
Model name	SWC - 4000W	SWC - 4100W	SWC - 4200W
Frequency band	2.3GHz (2.30 ~ 2.40GHz)	2.5GHz (2.49 ~ 2.69GHz)	3.5GHz (3.40 ~ 3.60GHz)
Channel bandwidth	5, 8.75 & 10MHz	5 & 10MHz	3.5, 5, 7, 8.75 & 10MHz
Modulation	DL: QPSK, 16QAM, 64QAM, UL: QPSK, 16QAM		
Max. throughput	DL: 40Mbps, UL: 8Mbps		
MIMO	Matrix A (STC) & Matrix B		
WiFi Security	WPA / WPA2, WEP64 / WEP128		
Transmit power	Max. 27dBm		
Receiving sensitivity	-95dBm @ QPSK ½ CTC		
Antenna	5dBi Gain (Omni - directional antenna)		
Dimension / Weight	192mm × 114mm × 31.5mm / 335g		

VoIP CPE

- WiMAX (IEEE 802.16e-2005 Wave2, VoIP (SIP RFC3261) & WiFi (802.11b/g) compliant
- MIMO support
- Gateway function between LAN and WiMAX
- Air interface / Duplex : OFDMA / TDD
- Authentication : EAP-TLS / EAP-TTLS
- Connectivity : - 1 x FXS port (VoIP)
- 2 x 10/100 Base-T ports (LAN)
- 802.11b/g (WiFi)



Item	Specification		
Model name	SWC - 5000W	SWC - 5100W	SWC - 5200W
Frequency band	2.3GHz (2.30 ~ 2.40GHz)	2.5GHz (2.49 ~ 2.69GHz)	3.5GHz (3.40 ~ 3.60GHz)
Channel bandwidth	5, 8.75 & 10MHz	5 & 10MHz	3.5, 5, 7, 8.75 & 10MHz
Modulation	DL: QPSK, 16QAM, 64QAM, UL: QPSK, 16QAM		
Max. throughput	DL: 40Mbps, UL: 8Mbps		
MIMO	Matrix A (STC) & Matrix B		
Voice codec	G.711a/u, G.729 a/b, G.723.1, G.726		
Voice quality	VAD, CNG, Echo cancellation, Jitter bug, DTMF		
Call features	Call Waiting, Call Transfer, Call Forward, Caller ID, DTMF, 3-way conference, Fax (T.38)		
WiFi Security	WPA / WPA2, WEP64 / WEP128		
Transmit power	Max. 27dBm		
Receiving sensitivity	-95dBm @ QPSK ½ CTC		
Antenna	5dBi Gain (Omni - directional antenna)		
Dimension / Weight	193mm × 112mm × 35mm / 335g		

Outdoor CPE

- WiMAX (IEEE 802.16e-2005 Wave2) compliant
- MIMO support
- Air interface / Duplex : OFDMA / TDD
- Authentication : EAP-TLS / EAP-TTLS
- Connectivity : - 1 x 10/100 Base-T (LAN, PoE)
- 802.11 b/g (WiFi)



Item	Specification		
Model name	SWC - 7000	SWC - 7100	SWC - 7200
Frequency band	2.3GHz (2.30 ~ 2.40GHz)	2.5GHz (2.49 ~ 2.69GHz)	3.5GHz (3.40 ~ 3.60GHz)
Channel bandwidth	5, 8.75 & 10MHz	5 & 10MHz	3.5, 5, 7, 8.75 & 10MHz
Antenna	13 ~ 14dBi	13 ~ 14dBi	16 ~ 17dBi
Modulation	DL: QPSK, 16QAM, 64QAM, UL: QPSK, 16QAM		
Max. throughput	DL: 40Mbps, UL: 8Mbps		
MIMO	Matrix A (STC) & Matrix B		
Transmit power	Max. 27dBm / Min. -47dBm		
Power	DC 48V / 0.3A (PoE) @ Maximum 10W		
Polarization / Radiation Pattern	+/-45 deg dual Linear / Directional		
HPBW(3dB Beam Width)	20°@E-plane / 30°@E-plane		
Receiving sensitivity	-95dBm @ QPSK ½ CTC		

Module & Mini Card

- WiMAX (IEEE 802.16e-2005 Wave2) compliant
- MIMO support
- Air interface / Duplex : OFDMA / TDD
- Authentication : EAP-TLS / EAP-TTLS
- OS compatibility : Windows XP, Vista, 7, MAC, Linux



Item	Specification		
Model name	SWM - 2000D (Module) SWH - 2000S (Half mini card) SWF - 2000S (Full mini card)	SWM - 2100D (Module) SWH - 2100S (Half mini card) SWF - 2100S (Full mini card)	SWM - 2200D (Module) SWH - 2200S (Half mini card) SWF - 2200S (Full mini card)
Frequency Band	2.3GHz (2.30 ~ 2.40GHz)	2.5GHz (2.49 ~ 2.69GHz)	3.5GHz (3.40 ~ 3.60GHz)
Channel bandwidth	5, 8.75 & 10 MHz	5 & 10MHz	3.5, 5, 7, 8.75 & 10MHz
Modulation	DL: QPSK, 16QAM, 64QAM, UL: QPSK, 16QAM		
Max. throughput	DL: 40Mbps, UL: 8Mbps		
MIMO	Matrix A (STC) & Matrix B		
Interface	60Pin Connector, Mini - PCI Express (USB2.0)		
Transmit power	Max. 23dBm		
Receiving sensitivity	- 95dBm @ QPSK ½ CTC		
Dimension / Weight	SWM - 2000D 30mm × 20mm × 4.2mm / 4.7g SWH - 2000S 30mm × 26.8mm × 2.6mm / 4.0g SWF - 2000S 30mm × 51mm × 2.8mm / 8.3g		