



# EXPLOSION PROOF CELLULAR ROUTER AND ACCESS POINT

The Solexy SWA/SWS R0\* is a compact, cost-effective and secure industrial 4G/LTE Wi-Fi router for installation in harsh environments and hazardous locations. It is used to create a WiFi Hotspot based on a cellular connectivity. External N or SMA/RP-SMA antenna connectors make it possible to attach desired antennas and easily find the best signal location.

SWA/SWSR0\* Industrial LTE router have industry leading security features and widely used for 4G backup, Remote Connection, Out-of-Band Management, Advanced VPN and tunneling services in IoT networking solutions.

With Solexy's SWA and SWS enclosures and their rugged construction combined with Atex, IECEx and North America certificates, Solexy offers a wireless device solution for installation in classified Ex areas (gas, dust and mining) and harsh environments.



## FEATURES

- ✓ **OPERATING FUNCTIONS**  
WiFi access point (Wifi to LAN or WiFi to 2G/3G/4G)  
WiFi client (LAN to WiFi)
- ✓ **DATA RATE**  
4G (LTE) Cat 4 up to 150 Mbps  
3G up to 42 Mbps and 2G up to 236.8 kbps
- ✓ **WIRELESS**  
IEEE 802.11 b/g/n Access Point (AP) and Station (STA)
- ✓ **SMS TOOLS**  
SMS status, SMS configuration, send/read SMS via HTTP POST/GET
- ✓ **HEAVY DUTY CONSTRUCTION**  
Explosion proof enclosure made in aluminum (SWA series) or stainless steel (SWS series) weather proof IP66/68

## APPROVALS

### ATEX / IECEx CERTIFICATION

Zone 1, 2, 21 & 22



II 2 G Ex db IIC T5-T4 Gb  
II 2 D Ex tb IIIC T110°C/T140°C Db  
I M2 Ex db I Mb (SWS only)

### USA & CANADA CERTIFICATION

Class I, Division 1, Groups B, C and D  
Class II, Division 1, Groups E, F and G  
Class I, Zone 1, Groups IIB+H2 [For U.S. only]  
Zone 21, Groups IIIC [For U.S. only]



# SPECIFICATIONS

## GENERAL

Power supply	9 - 30 VDC, Passive PoE	
Power consumption	5W	
Ambient temp. range	USA & CANADA	SWA series -40°C (-40°F) +75°C (+158°F) SWS series -40°C (-40°F) +75°C (+158°F)
	ATEX & IECEx	SWA series -40°C (-40°F) +68°C (+154°F) SWS series -40°C (-40°F) +61°C (+141°F)

## HARDWARE

CPU	Atheros Hornet, MIPS 24Kc, 400 MHz	
Memory	RAM 64MB, DDR2, Flash 16MB SPI	
I/O	1 x Digital Input, 1 x Digital Output	
Ethernet	2 x RJ45 ports, 10/100 Mbps	
Network connection	4G	Cat 4 up to 150 Mbps
	3G	Up to 42 Mbps
	2G	Up to 236.8 kbps
Supported bands* <i>* in function of device installed</i>	4G (LTE-FDD)	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B26, B28
	4G (LTE-TDD)	B38, B39, B40, B41
	3G	B1, B2, B4, B5, B6, B8, B19
	2G	B2, B3, B5, B8
WiFi	802.11 b/g/n - Up to 50 simultaneous connection	

## SOFTWARE

Management	WEB UI	HTTP/HTTPS, status, configuration, FW update, CLI, troubleshoot, event log, system log, kernel log
	FOTA	Firmware update from sever, automatic notification
	SSH	SSH (v1, v2)
	SMS	SMS status, SMS configuration, send/read SMS via HTTP POST/GET
	SNMP	SNMP (v1, v2, v3), SNMP trap
	JSON-RPC	Management API over HTTP/HTTPS
	MODBUS	MODBUS TCP status/control
	RMS	Remote Management System (RMS)
VPN	OpenVPN	Multiple clients and server can be running simultaneously, 12 encryption methods
	IPsec	IKEv1, IKEv2, supports up to 4x VPN IPsec tunnels (instances), with encryption
	GRE	GRE tunnel
	PPTP, L2TP	Client/Server services can run simultaneously
	Stunnel	Proxy designed to add TLS encryption functionality to existing clients and servers without any changes in the programs' code.
	SSTP	SSTP client instance support

## NOMENCLATURE

<b>SWA</b>	<b>R00</b>	<b>33</b>	<b>- 42</b>	<b>0</b>	<b>X0</b>
<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>		<b>e</b>

### a - Enclosure

SWA	Aluminum polyester powder coated
SWS	Stainless steel AISI 316 (CF8M) electropolish

### b - Device

R00	Europe, the Middle East, Africa, Korea, Thailand, India
R01	North America (AT&T, T-Mobile) <sup>(1)</sup>
R02	North America (Verizon)
R03	Australia (Telstra)
R04	South America, Australia, New Zealand, Taiwan

### c - Antenna connection <sup>(2)</sup>

30	n° 3 RXN antenna coupler (N Female) <sup>(3)</sup>
33	n° 2 RXN antenna coupler (N Female) <sup>(4)</sup>
54	n° 2 RXS antenna coupler (SMA Female) for Mobile <sup>(4)</sup> n° 1 RXF antenna coupler (RP-SMA Female) for WiFi <sup>(4)</sup>
45	n° 1 RXS antenna coupler (SMA Female) for Mobile <sup>(3)</sup> n° 1 RXF antenna coupler (RP-SMA Female) for Wifi <sup>(3)</sup>

### d - Cable entries

42	n° 4 3/4" npt-f
44	n° 4 M25x1.5

### e - Approvals

X0	Atex/IECEX Gas and Dust certified <sup>(5)</sup>
M0	Atex/IECEX Gas, Dust and mining certified <sup>(5)</sup>
N0	QPS CL1 DIV1 and North American Zones listed

Notes:

<sup>(1)</sup> AT&T and T-Mobile approval in progress

<sup>(2)</sup> Antenna not included

<sup>(3)</sup> Layout 4

<sup>(4)</sup> Layout 3 (consult dimensional drawings for specific layout)

<sup>(5)</sup> Zone 1, 2, 21 & 22

## AVAILABLE ACCESSORIES

**MOUNTING BRACKET:** KM-01: mounting kit for 2" pipe  
(see dedicated data sheet) KM-02: universal mounting kit

