EXPLOSION PROOF CELLULAR ROUTER AND ACCESS POINT



The Solexy SWA/SWS R0* is a compact, costeffective 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)

O 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

 $\langle \xi_x \rangle$ I M2(M1) Ex db mb [ia Ma] I Mb (SWS only) II 2(1) G Ex db mb [ia Ga] IIC T6...T5 Gb II 2(1) D Ex mb tb [ia Da] IIIC T80°C...T100°C Db

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 (+167°F) SWS series -40°C (-40°F) +75°C (+167°F)		
	ATEX & IECEx	SWA series -40°C (-40°F) +71°C (+159°F) SWS series -40°C (-40°F) +66°C (+150°F)		
Weight	SWARxx33 & SWARxx45: 2,6 kg - SWARxx30 & SWARxx54: 2,9 kg (without antenna) SWSRxx33 & SWSRxx45: 5,3 kg - SWSRxx30 & SWSRxx54: 5,6 kg (without antenna)			
HARDWARE				
CPU	Atheros Hornet, MIPS 24Kc, 580 MHz			
Memory	RAM 128MB, 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*	4G (LTE-FDD)	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B26, B28		
* in function of device installed	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 simultaneuos connection			
SOFTWARE	1			
Operating system	RutOS (OpenWrt based Linux OS)			
Mobile features	Auto APN, Band lock			
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, PPPoE, DHCP, Telnet			
Network	Failover (Network backup), VLAN, QoS, Load Balancing			
Security	DDOS prevention (SYN flood protection, SSH attack prevention, HTTP/HTTPS attack prevention), Port scan prevention (SYN-FIN, SYN-RST, X-mas, NULL flags, FIN scan attacksw			
VPN and tunneling	OpenVPN, IPsec, GRE, PPTP, L2TP, Stunnel, DMVPN, SSTP			
Monitoring and management	WEB UI, CLI, SSH, SMS, TR-069, SNMP, JSON-RPC, MQTT, RMS			
Connection monitoring	Ping Reboot, Wget reboot, Periodic Reboot, LCP and ICMP for link inspection			
Cloud solution	RMS, FOTA, Telenor, Azure IoT Hub, Cloud of Things, Cumulocity, ThingWorx			
SMS features	SMS status, SMS configuration, Send/Read SMS via HTTP POST/GET, EMAIL to SMS, SMS to Email, SMS to HTTP, SMS to SMS, scheduled SMS, SMS autoreply, SMPP			
Services	DDNS, VRRP, Wake On Lan (WOL), WEB filter, UPNP, Traffic Logging			

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NOMENCLATURE

 $\frac{\text{SWA}}{\text{a}} \frac{\text{R13}}{\text{b}} \frac{33}{\text{c}} - \frac{42}{\text{d}} \frac{1}{\text{e}} \frac{\text{X0}}{\text{e}}$

a - Enclosure

SWA Aluminum polyester powder coated

SWS Stainless steel AISI 316 (CF8M) electropolish

b - Device

R13 Global

R19 North America (AT&T, Verizon, T-Mobile)

c - Antenna connection (1)

30 n° 3 UXN antenna coupler (N Female) (2)
 33 n° 2 UXN antenna coupler (N Female) (3)
 (*) Available antenna couplers with SMA, RP-SMA, isolated ground and surge protection. Contact Solexy to obtain the right code

d - Cable entries

42 n° 4 3/4" npt-f 44 n° 4 M25x1.5

e - Approvals

X0 Atex/IECEx Gas and Dust certified ⁽⁴⁾
M0 Atex/IECEx Gas, Dust and mining certified ⁽⁴⁾
N0 QPS CL1 DIV1 and North American Zones listed

Notes:

⁽¹⁾ Antenna not included

(2) Layout 4

(3) Layout 3 (consult dimensional drawings for specific layout)

(4) Zone 1, 2, 21 & 22

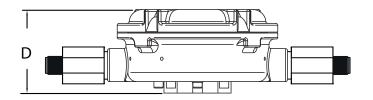
AVAILABLE ACCESSORIES

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



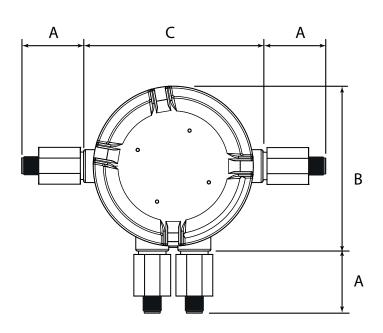


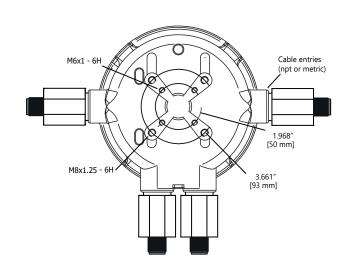
DIMENSIONAL DRAWINGS



In order to determine overall dimension of a specific unit pls follow instructions:

- 1) Select the specific layout (you can find it in the product nomenclature)
- 2) Consider only the antenna coupler dimension (A) that you find in the layout

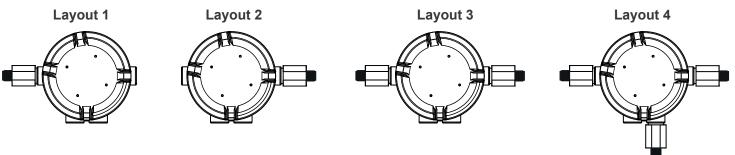




Model	A (*)	В	С	D
SWA HWA	58,5 mm [2.30"] metric coupler 70 mm [2.76"] npt coupler	179,8 mm [7.08"]	180 mm [7.09"]	89,5 mm [3.52"]
SWS HWS	58,5 mm [2.30"] metric coupler 70 mm [2.76"] npt coupler	180,5 mm [7.11"]	196 mm [7.72"]	90 mm [3.54"]

(*) max dimension related to RX or SX coupler with N female antenna connector

TYPICAL LAYOUTS



(**) layout type specified in device datasheet

SOLEXY USA, LLC

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