

EXPLOSION PROOF LTE CAT 6 CELLULAR ROUTER WITH WIFI



The Solexy S WA/SWS R** is a compact, cost-effective and secure industrial 4G/LTE CAT6 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 connect desired antennas and easily find the best signal location.

SWA/SWSR** Industrial 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 S WA and SWS enclosures and their rugged construction combined with Atex and IECEx 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 3G/4G)
WiFi client (LAN to WiFi)



DATA RATE

4G (LTE) Cat 6 up to 300 Mbps
3G up to 42 Mbps



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

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

NOMENCLATURE



SWA	R40	33	- 42	1	X0	
a	b	c	d	e	f	

a - Enclosure

SWA Aluminum polyester powder coated

SWS Stainless steel AISI 316 (CF8M) electropolished

b - Device

R40 Europe, The Middle East, Africa, Australia, New Zealand

c - Antenna connection ⁽¹⁾

30 n° 3 UXN antenna coupler (N Female) ⁽²⁾

33 n° 2 UXN antenna coupler (N Female) ⁽³⁾

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⁾

f - Extensions

-29 only cellular/no WiFi (available only for SW*R**33...)

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

KM-02: universal mounting kit

(see dedicated data sheet)

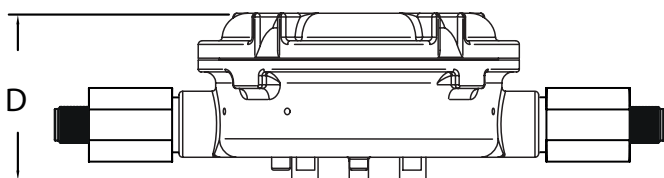


GENERAL	
Power supply	9 - 30 VDC, Passive PoE
Power consumption	Idle <2W, max<6,5W
Ambient temp. range	ATEX & IECEx SWA series -40°C (-40°F) +66°C (+150°F) T5 SWS series -40°C (-40°F) +56°C (+132°F) T5
Weight	SWARxx33 & SWARxx45: 2,6 kg - SWARxx30 & SWARxx54: 2,9 kg (without antenna) SWSRxx33 & SWSRxx45: 5,3 kg - SWSRxx30 & SWSRxx54: 5,6 kg (without antenna)

HARDWARE	
CPU	Mediatek, MIPS 24KEc, 580 MHz
Memory	RAM 128MB, DDR2, 16MB SPI Flash
I/O	1 x Digital Input, 1 x Digital Output
Ethernet	2 x RJ45 ports, 10/100 Mbps
Network connection	4G Cat 6 up to 300 Mbps 3G Up to 42 Mbps
Supported bands*	4G (LTE-FDD): B1, B3, B5, B7, B8, B20, B28, B32 4G (LTE-TDD): B38, B40, B41, B42, B43 3G: B1, B3, B5
WiFi	802.11 b/g/n - Up to 50 simultaneous connections

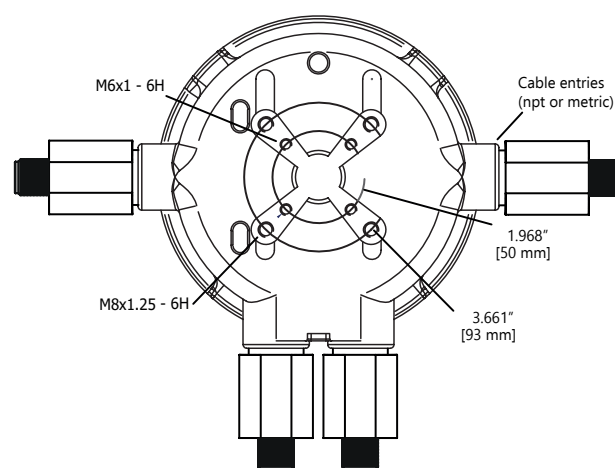
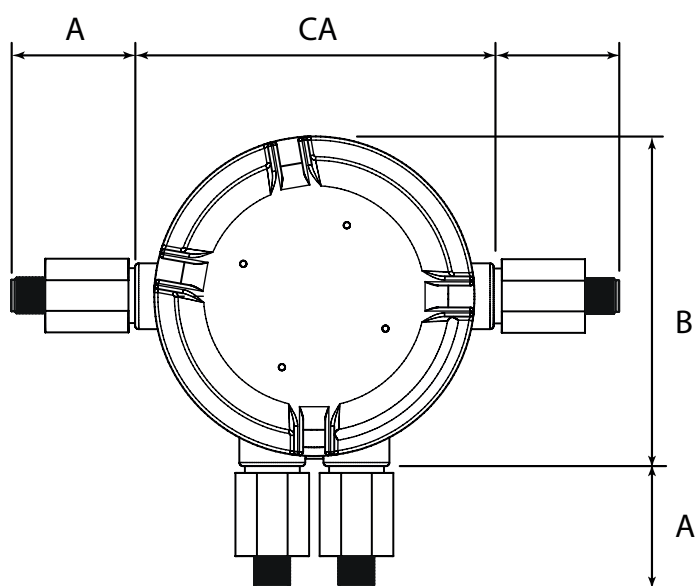
SOFTWARE	
Operating system	RutOS (OpenWrt based Linux OS)
Mobile features	Auto APN, Band lock
Network protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, FTP, SMTP, SSLv3, TLS 1.3, ARP, PPP, PPPoE, DHCP, Telnet
Network	Failover (Network backup), VLAN, QoS, Load Balancing
Security	DDOS prevention (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





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

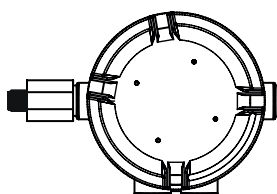


MODEL	A (*)	B	C	D
SWA HWA	58,5 mm [2.30"] metric coupler 70 mm [2.76"] npt coupler	179,8 mm [7.08"]	180 mm [7.09"]	89,5 mm [3.52"]
SWS HWS	58,5 mm [2.30"] metric coupler 70 mm [2.76"] npt coupler	180,5 mm [7.11"]	196 mm [7.72"]	90 mm [3.54"]

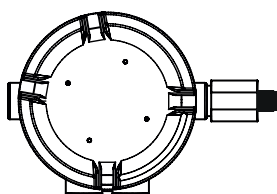
(*) max dimension related to RX or SX coupler with N female antenna connector

TYPICAL LAYOUTS **

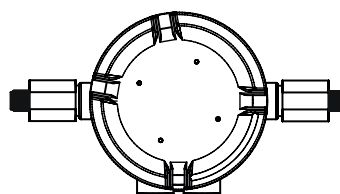
Layout 1



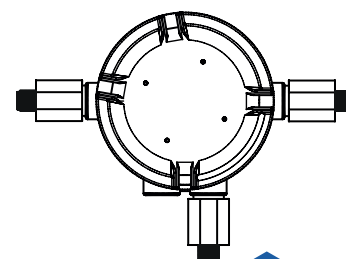
Layout 2



Layout 3



Layout 4



(**) layout type specified in device datasheet





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