SRD RSU WiFi

- Complete Road Side Unit (RSU) device for WiFi motion communications
- WiFi 802.11 b,g,n - 2.4 GHz
- WiFi 802.11 ac/ax 5.4 GHz
- 2 Antennas WiFi Motion Ax
- Frequency range 5,1 - 5,9 & 2,4 - 2,5 GHz
- Gain 10dBi@24GHz, 13 dBi@5GHz
- General warnings
- Intersection safety
- Shockwave damping
- Display Hazard Location
- Road Works Warning in Vehicle Signage
- Road Works Warning
- Prioritization Dynamic sign content Tolling station
- Green Light Optimal Speed Advisory
- Green Wave Speed Information
- Weather Warning
- Park & Ride

FEATURES:

STP RSU WiFi is the radio communication system between infrastructure and vehicles, specifically designed to be integrated into the **SmarTekPole** product, and dedicated to the creation of Smart Road, Smart City and critical infrastructures in general.

STP RSU WiFi is an integrated all-in-one professional radio system, designed to ensure reliable WiFi motion communication between the ground infrastructure and users who have vehicles without OBU but who can use the messages through dedicated APPs installed on mobile devices. The product supports the 802.11 b,g,n and Wi-Fi 802.11 ac/ax standards.

STP RSU WiFi allows you to create your WiFi motion network quickly and easily without a critical radio-design project. A compact and reliable IP67 enclosure allows the system to be installed on an existing pole or portal infrastructure.

A complete internal software environment provides 4 nested levels of security from the kernel to the application that guarantee the protection of **STP RSU WiFi** from external computer intrusions.

A set of 2 antennas joined in an all-in-one mechanical solution ensures optimized coverage of a road segment and maximizes the coverage area of ??radio communications while minimizing radio emissions outside the roadside area.

- Smart Road
- Smart City

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SRD RSU WiFi

DATASHEET:

Processor:	QuadCore ARM
Co-processor:	Graphical UNIT for neural network support
Memory:	Ram 2GB, Flash 8GB
WiFi 802.11:	b,g,n - 2.4 GHz
WiFi 802.11:	ac/ax 5.4 GHz
LoRawan:	Survival & diagnostic channel
Sigfox:	Survival & diagnostic channel
Antenna Gain:	10dBi@24GHz, 13 dBi@5GHz
Antenna fixing:	Mechanical security block
LAN and ports:	Ethernet Port 10/100/1000
RSU Dimensions:	160 x 220 x 80 mm (h/l/w)
Antenna maximum space Dimension:	600 x 300 mm diameter
Weight RSU:	1,5 Kg. approx
Weight Antenna:	3 Kg. approx.
Power Supply:	9-36 Vdc - 30W or POE IEEE 802.3at
Consumption:	Max. 30W
Operating temperature:	-40° + 70°C
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Industrial Protection:	IP67
Antenna connections:	n°4 Connectors IP67
LAN-POE:	n° 1 Connectors IP67
RSU Case:	Anodized aluminium

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