



CV2X

RSU - Road Side Unit

Security and Access Control • Logistics and Industry • **Transport and Communications Infrastructure**



All-in-one integrated professional radio system

designed to ensure reliable V2X communication between the ground infrastructure and the OBUs (On Board Units) of the latest generation vehicles.

It manages multiple C-V2X and DSRC connectivity standards simultaneously

ITS G5 (DSRC IEEE 802.11p), C-V2X (PC5), LTE-A Cat. 16, Supports Wi-Fi 802.11b, g, n and Wi-Fi 802.11a/ac standards. STP RSU C-V2x.

The internal software environment provides 4 levels of security

nested from the kernel to the application that ensure the protection of STP RSU C-V2x from cyber attacks.

Set of 6 antennas combined in an all-in-one mechanical solution

ensures optimized coverage of a road segment while minimizing radio emissions outside the road area.

Expandable

It can host local management logic thanks to its multi-core ARM platform and compute, memory and storage resources.

Applications:

- Road Side Unit (RSU) device complete with all C-V2X and DSRC communication standards
- Message General warnings
- Intersection Safety message
- Shockwave damping message
- Display of the danger position
- Roadworks warning in vehicle signs
- Road works notice
- Prioritization Dynamic signage content
- Toll station
- Green light Optimal speed warning
- Green wave speed information
- Weather alert
- Park and ride



www.simec.es

Sistemas de identificación y mecanismos SL
c/ Tomas Breton, 50 - 28045 **Madrid**
Tel: (+34) 915.273.392 info@simec.es

SIMEC AMS Ltda.
Cra 15 # 106-32 Of. PH4 **Bogota**
T: +57 601 2450112
M: +57 301 7663855

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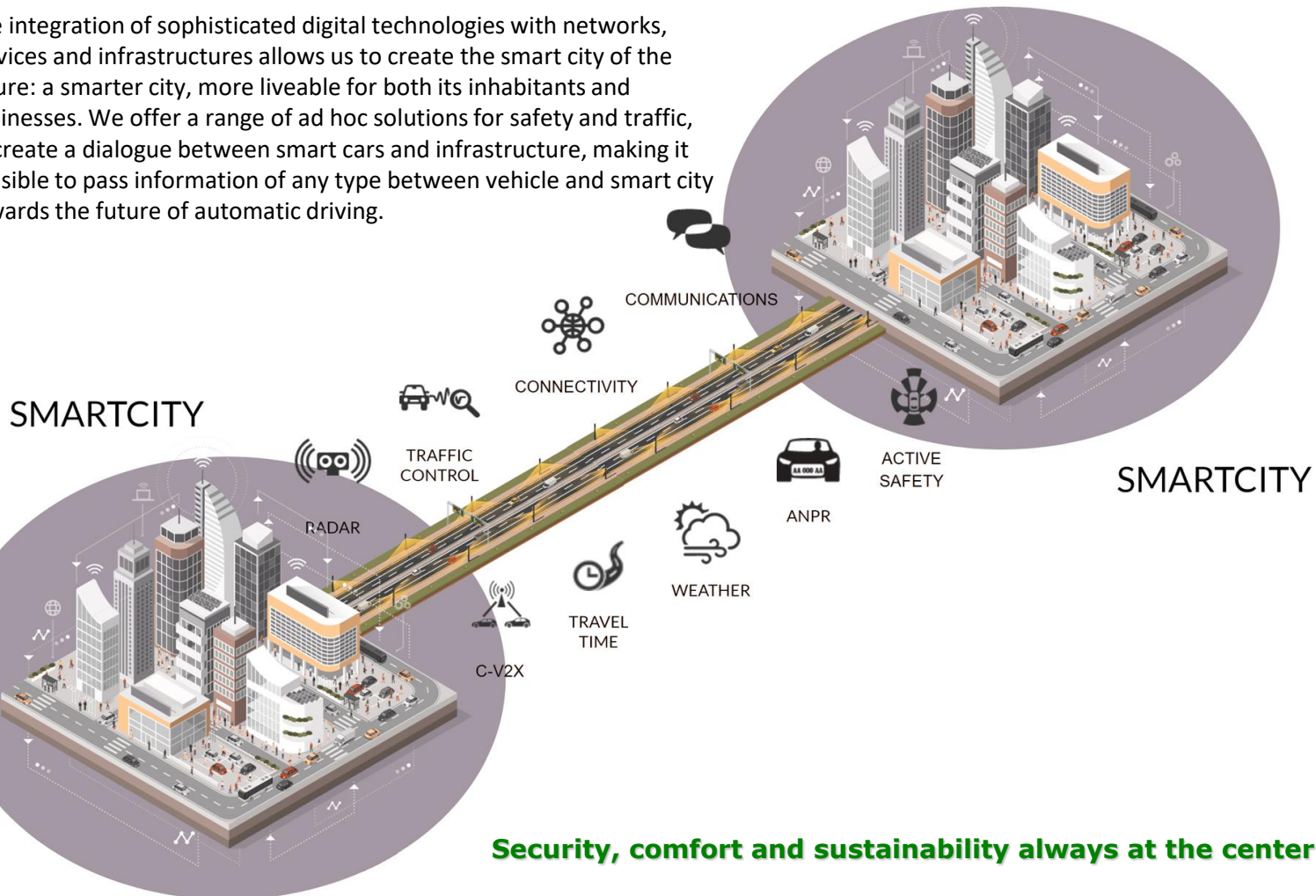
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Smart Road: Technologies for a smarter city

The integration of sophisticated digital technologies with networks, services and infrastructures allows us to create the smart city of the future: a smarter city, more liveable for both its inhabitants and businesses. We offer a range of ad hoc solutions for safety and traffic, to create a dialogue between smart cars and infrastructure, making it possible to pass information of any type between vehicle and smart city towards the future of automatic driving.



RSUs communicate automatically with vehicle OBUs and people's mobile devices. They receive movement and position data from the field and send safety messages, alarms and traffic information from the general control center to the field.

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Security, comfort and sustainability always at the center

The objective that guides our activity is to materialize the concept of smart road: an intelligent road, capable of interacting with vehicles and structures dedicated to safety, comfort and environmental sustainability. Among the road devices proposed, the dual-technology RSU (Road Site Unit) stands out, capable of connecting smart roads, vehicles and smart cities.

THE SMART ROAD, WHETHER THEY ARE IN THE SUBURBS OR IN THE STREETS OF THE CENTER, WILL INCREASINGLY BE THE ARTERIES OF COMMUNICATION

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