

SMART ROAD

TECHNICAL EQUIPMENT OVERVIEW · DEMONSTRATION DOCUMENT · VERSION 1.0

This document demonstrates the document-preview and download flow of the SMART ROAD website. Final project specifications, standards, selected models and compliance data are confirmed only after engineering review.

Reference configurations

Configuration	Purpose	Key parameters	Interfaces
SR WIM HS-4	High-speed weighing and traffic data	4 lanes; up to 200 km/h; axle and gross weight	Ethernet; REST API; VPN
SR Vision ANPR-X	Number-plate recognition	Up to 4 lanes; day/night; multi-region OCR	ONVIF; RTSP; REST API
SR Traffic Radar T-8	Counting, classification and speed	Up to 8 lanes; speed, occupancy, queue	Ethernet; MQTT; TCP/IP
SR RWIS Meteo-R	Road and weather monitoring	Surface state; visibility; precipitation; wind	RS-485; Modbus; MQTT

System architecture

FIELD LEVEL (WIM, ANPR, radar, CCTV, RWIS, VMS) → COMMUNICATION (fiber, Ethernet, 4G/5G, radio, VPN, IoT) → CONTROL CENTER (servers, TMS, GIS, dashboards) → EXTERNAL SYSTEMS (road authorities, police, emergency and tolling).

Engineering and compliance note

The values shown above are reference parameters for interface demonstration and are not a commercial offer. Product selection, measurement accuracy, standards, certificates, installation conditions and integration protocols must be validated against official manufacturer documentation and the customer technical assignment.