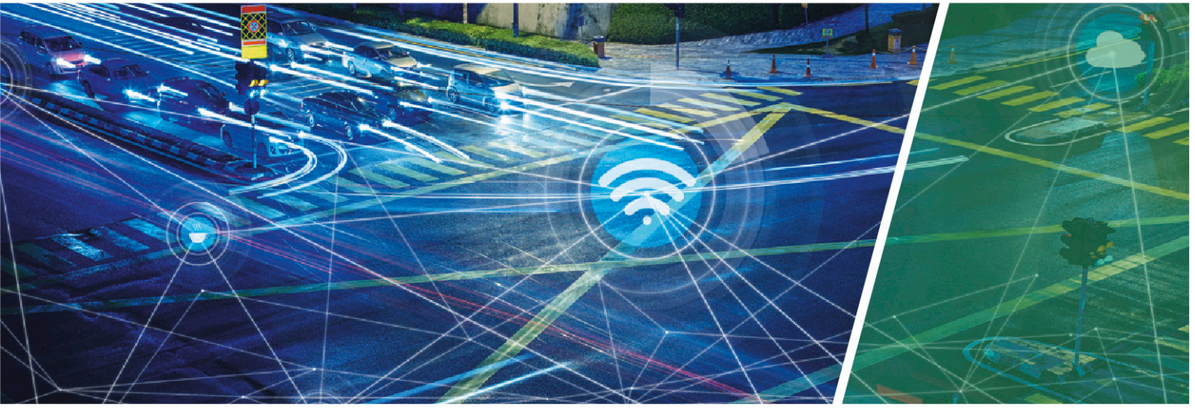
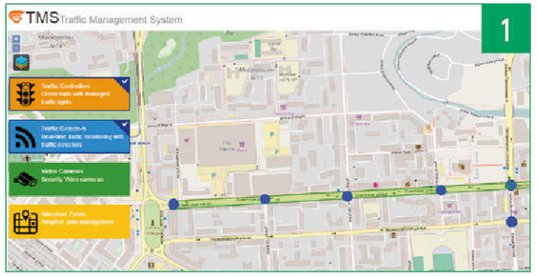
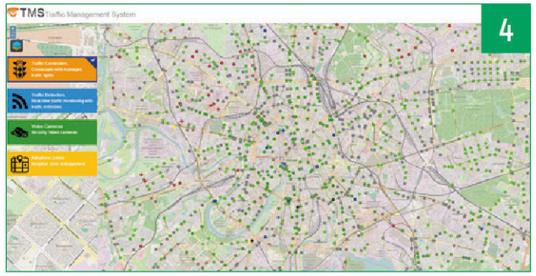
Traffic Management System (TMS)

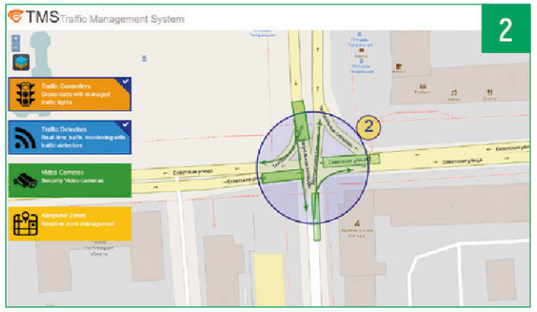
Traffic Management System **(TMS)**

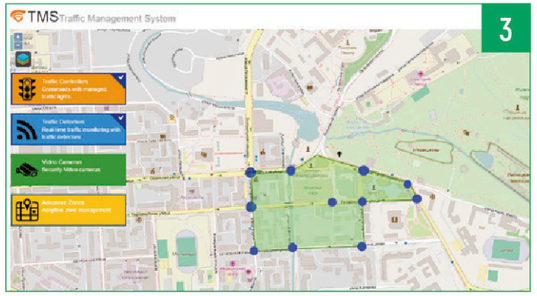
1 Coordinated management
2 Centralized supervised management of remote equipment
3 Management of adaptive areas
4 Centralized monitoring, service, and support for controllers from a list of manufacturers
5 Centralized technical record keeping and content management

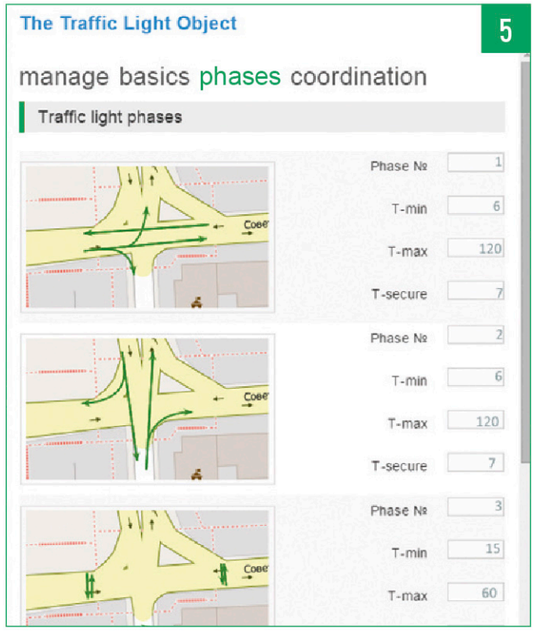












Syntez-M traffic control box

Syntez-M is a smart traffic control box that manages a broad spectrum of remote equipment types

Features:

- Supports the UTMC open protocol
- Supports the UG405 protocol
- Supports up to 130 signal groups
- Supports up to 256 traffic detectors
- IP65 security class
- Multilingual graphical interface

Functions:

- Coordinates traffic lights and crossroads
- Adaptive management based on data from traffic detectors
- Creates adaptive areas by merging several adjacent crossroads
- Part of the coordinating system controlled by a central software
- Traffic control box is a centre in the road network that aggregates remote equipment on a area level

Smartvision video detector

Smartvision detects the number of vehicles passing through the road section and determines the parameters of the traffic

Features:

- Area of detection features up to 4 lanes
- Installation up to 300 m from the control box
- Energy consumption of 30 watt
- Installation between 3.5 and 12 m high
- IP65 security class

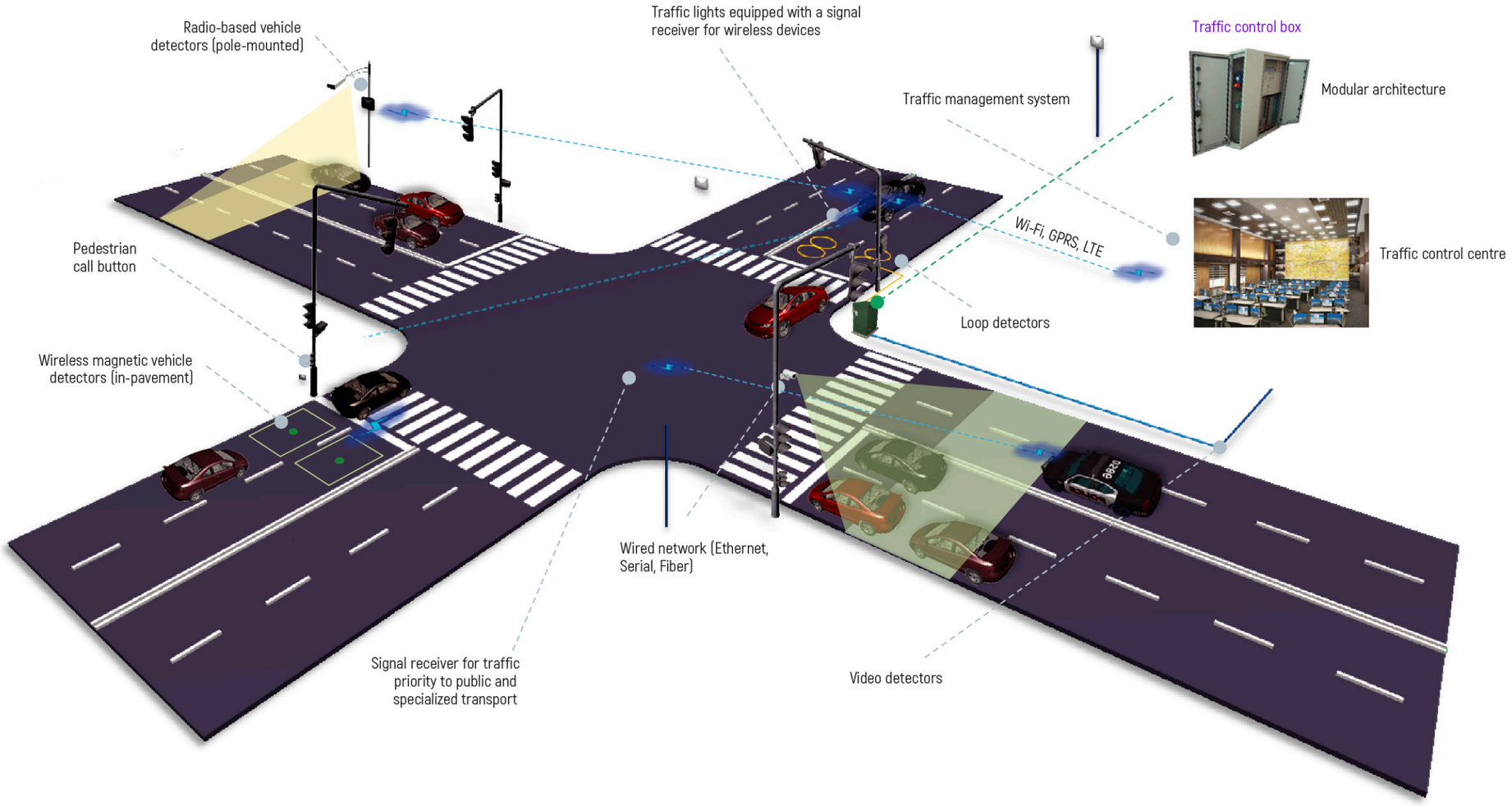
Functions:

- Manages the number of vehicles, traffic density, time span between passing vehicles
- Manages the traffic at crossroads (traffic light management, early detection of traffic buildups)
- Traffic management systems for controlled-access highways and accident detection
- Manages the traffic on highway ramps
- Detects the length of traffic congestion
- Can be used as a stationary or mobile unit for traffic intensity measurement

Syntez traffic control box

is a hardware and software complex that allows automatically or manually managing traffic lights and variable-message signs locally at a given crossroads or a group thereof part of the traffic management system (TMS)

Traffic control box: general info



Upper level of the ETS

Traffic control boxes

Traffic control boxes

Remote equipment

Traffic lights

Variable-message signs

Countdown timers

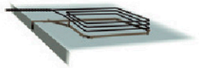
Radio-based detectors

Wireless magnetic detectors

100% authentic product with competitive functionality except for microelectronic components (chips etc)

Pedestrian call buttons

Radio modems, UHF



Loop detectors

Digital cameras (detectors)

Note: microelectronic components (chips, processors etc) of authentic products are manufactured abroad

Syntez TCB: technical specifications

PARAMETER	VALUE
Number of SILOVIH groups	2 to 124
Load of a single circuit	4A
Total load current commutated at any given moment	≥16A
Number of controllable traffic phases	≥50
Number of traffic control programs	≥50
Main cycle change interval	1 to 999 sec
Traffic control box architecture	Processor module
	Data entry/export interface
	Power key chips
	Power supply, voltage transformer, power safety
	Software
	Moisture and dust-proof cabinet
Surrounding air - temperature - humidity at 30 °C	 45 to 70 °C 0 to 95%
Network protocol support	UTMC, UG405
Ethernet	≥50 Mbps
Reserve battery capacity	≥2400 hours
Voltage	160-242V, 50±1Hz
Power consumption	≤60 watt
Certification	Compliance certificate # ROSS RU.ME04.H01478 Issued by "BETI" certification agency, ul. Shenogina, 4, Moscow, 123007, # ROSS RU.0001.11МЛ06. from 29.03.2016 till 28.03.2019
Certification standards	GOST P 50460-92; TU 279070000-001-97296378-2016

Smartvision video detector: technical specifications

CHARACTERISTIC	MODEL	
	SMARTVISION-POE	SMARTVISION-PL
Detection	Presence of vehicle	
Number of detection areas	4	
Lens type, angle of vision	Narrow-angle, 720/Wide-angle, 1600	
Mounting height	3.5-12m	
Max. distance from the control box	100m	300m
CMOS sensor type	1/4", color	
Compression	JPEG, h.264	
Body material	Aluminum	
Size	30x9x9cm	
Sun shield	Included	
Hub size	10x11.6x4.1cm	
Voltage	POE IEEE 802.3af	220V AC
Power consumption	30 Watt	
IP Address	Yes	
Data transfer to PC	Web interface	
Interface type	ETH TCP/IP 100Mbit	
Hub outputs (max 50mA, 80V DC)	20 (4 per detector)	

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