SMARTCONE
LEADING THE EDGE

PATRIoT™ ENGINE
TSC-SW-POS

The PatrIoT™ Engine is the backbone of the edge system. From system configuration and data collection, to data aggregation, analysis, reporting, and alerting, the PatrIoT™ Engine senses the world around us and reacts to it in ways you define. Thanks to its modular design, it can easily integrate new and existing sensors. The data from those sensors can be stored and reviewed later, analyzed for events of interest automatically, or sent to third party data processing/storage facilities.

The PatrIoT™ Engine offers a REST API for configuration of the system and retrieval of data, as well as a websocket API for retrieving data. This allows quick building of custom dashboards and reports specific to your workflow.

The PatrIoT™ engine can run on almost any edge hardware that supports Linux and meets the minimum requirements. It supports a maximum of 56 billion sensors; however, the practical limit depends on the data load from the sensors and the capabilities of the hardware.

KEY FEATURES

- ✓ Well defined sensor interface
- ✓ Modular design
- ✓ Modern communication protocols and data storage solutions
- ✓ Artificial Intelligence for video surveillance and monitoring
- ✓ REST API for configuration and data retrieval
- ✓ Websockets for dynamic data dashboards

PATRIoT™

ENGINE

The PatrIoT™ Engine has been designed to run on SmartCone hardware, however other options exist.

Disk space requirement depends on the quantity of sensors and the local data storage settings.

External networking is not required for minimal operation, although an internal network is set up inside the device.

SOFTWARE SPECIFICATIONS

MINIMUM REQUIREMENTS	
CPU	ARM Cortex-A53 or x86_64 (Intel i3 or Ryzen 3)
Operating System	Linux
Memory	2 GB DDR3
Disk Space	>20 GB SD Card or eMMC or SSD
GPU	None
Network	None

RECOMMENDED HARDWARE	
CPU	ARM Cortex-A53 or x86_64 (Intel i5 or Ryzen 5)
Memory	4 GB DDR4
Disk Space	>50 GB SD Card or eMMC or SSD
GPU	nVidia GTX 900 series
Network	>10 Mbps

FEATURES	
API	REST, MQTT, Websockets
Database	In-Memory, SQL
Environment	Docker
Security	SSL/TLS

Email: sales@thesmartcone.com
www.thesmartcone.com