

Space Engine Servers · on-site server

Space Engine Edge

Space Engine Edge – the on-site server of the Space Engine platform. Your system, kept inside your building.



Space Engine Edge – ports view

Full control over keys and data

A dedicated computer with your private copy of the Space Engine server. Permissions, event history and cryptographic keys stay in your infrastructure.

It runs as an isolated environment (sandbox) or on the site's dedicated network, so the building does not depend on a public cloud or its outages.

Key functions

Base configuration

Intel Core i5-6400 (4 cores, 2.70 GHz), 16 GB RAM; scaled up to the project's needs, e.g. VoIP.

Kubernetes cluster

Several servers in a cluster, expandable or reducible at any time.

Open API

HTTP and WebSocket connect hotel software, building management systems and your own apps.

Specifications

Type	dedicated Intel-based server
Processor (base configuration)	Intel Core i5-6400, 4 cores, 2.70 GHz
RAM (base configuration)	16 GB
Configuration	base, scaled up to the project's needs (e.g. VoIP)
Ports	4× USB 3.0, 1× Ethernet RJ45, HDMI, VGA, RS-232 serial port (DB9), headphone output and microphone input
Power supply	12 V DC
Buttons	power and RESET
Scaling	cluster of several servers (Kubernetes), expandable or reducible at any time
Software	private instance of the Space Engine server, with licence
Deployment	Docker, Kubernetes or bare metal
Operating system	Linux (recommended) or Windows Server
API	HTTP and WebSocket, JSON; JWT token authentication; HTTPS recommended
Keys and data	stored on the customer's server
In the box	server + Space Engine licence
Warranty	12 months, with an optional paid extension to 24 months

How much server does a building need?

A single building does not need a very powerful server. MQTT communication with the Space API is very light: one hub uses about 30 MB of data per month, mostly short keep-alive (heartbeat) messages between the devices and the server. That is why we start from the base configuration and scale it up to the project's needs, for example when you enable a VoIP system, which may require stronger hardware.

Works with the SPACE system

Space Gate hubs connect to the server over MQTT. Locks, terminals, sensors and building automation are managed by Space Engine on your server.

Ordering

- We size the server configuration and licence to your site.
- Price on request.
- Resilience (e.g. a second server) is planned when designing the deployment.

Contact and orders

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