Rapid.Space EdgePacer

A microSD with Rapid.Space services

A microSD pre-installed with Rapid.Space's open source edge technology. Convert a Raspberry Pi 4 or Olimex LIME2 into a plug-and-play edge node. Ideal for industry, open source projects, education and research.

Key Benefits

- Raspberry 4 compatible
- Olimex compatible
- Plug-and-play
- Low latency
- Built-in CDN
- Built-in SDN
- Built-in PaaS
- Built-in PLC
- Built-in QuickJS
- Built-in IoT gateway
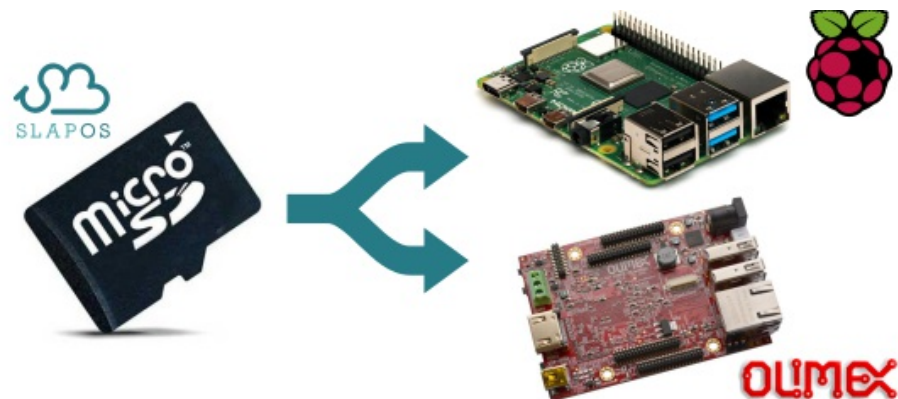- OPC-UA TSN
- IEEE 1588v2
- MAVLink
- ITAR-free
- Fully Open

Use Case

- Digital Resilience
- Legal Immunity
- Data Privacy
- Smart Gateway
- Industry 4.0
- Autonomous Drones
- Education

Plug-and-play edge computing

Turn on the EdgePacer and manage it using the Rapid.Space panel. Deploy automatically IT workloads at the edge. Access them worldwide through the Rapid.Space CDN. Leverage cloud automation on-premise.

Theia PaaS

Add new services with Theia, a Web IDE used by SAP, IBM, Ericsson and Huawei. Use the Rapid.Space Platform as a Service (PaaS) for Service Lifecycle Automation (SLA).
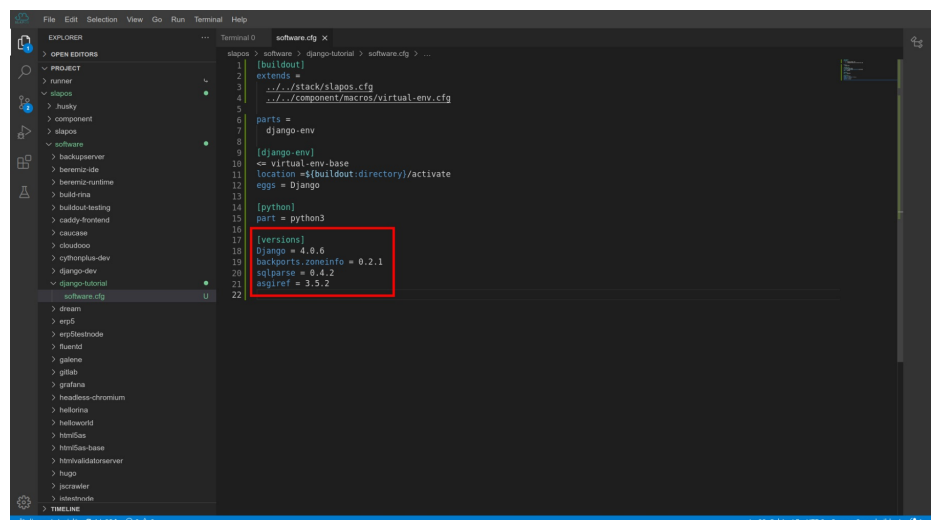
Digital Resilience

Maintain a resilient digital infrastructure during Internet outages or congestion. Access a digital workspace during public cloud unavailability. Deploy digital infrastructure in regions with competitive energy supply.

Disaster Recovery Mesh

Add more EdgePacers in different sites as backup and build an indestructible disaster recovery mesh. Also works with Rapid.Space VPS, Rapid.Space EdgePOD, Rapid.Space ORS and 3rd party clouds.

Low Latency

Linux kernel with PREEMPT_RT for hard real-time. IEEE 1588v2 for high precision time synchronisation. IEEE 802.1 TSN for time sensitive networking.

"Industry 4.0" Enabled

Built-in PLC compatible with IEC 61131-3 standard and OPC-UA for industrial automation. Built-in data collection gateway compatible with 100+ IoT protocols including MQTT.

Smart coupler

Built-in OPC-UA coupler SDK for on-board AI and safety implementation. Built-in Mavlink support for drone automation. QuickJS runtime for rapid prototyping and development.

ITAR-free and Globally Immune

Available worldwide. Immune to extraterritorial jurisdiction thanks to choice of CPU: Broadcom (USA), Allwinner (China) or ST (European Union).

Zero-Knowledge Security

Neither passwords nor credentials need to be shared between the EdgePacer and Rapid.Space. Ideal for sensitive applications (defense, government, research) that require full reversibility and offline operation.

Fully Open

All software of EdgePacer is open source including Rapid.Space operation management panel and operation procedures. EdgePacer supports open source hardware manufactured by Olimex. Anyone can copy Rapid.Space EdgePacer and run their own edge infrastructure and edge automation panel.