SlapOS EdgePacer

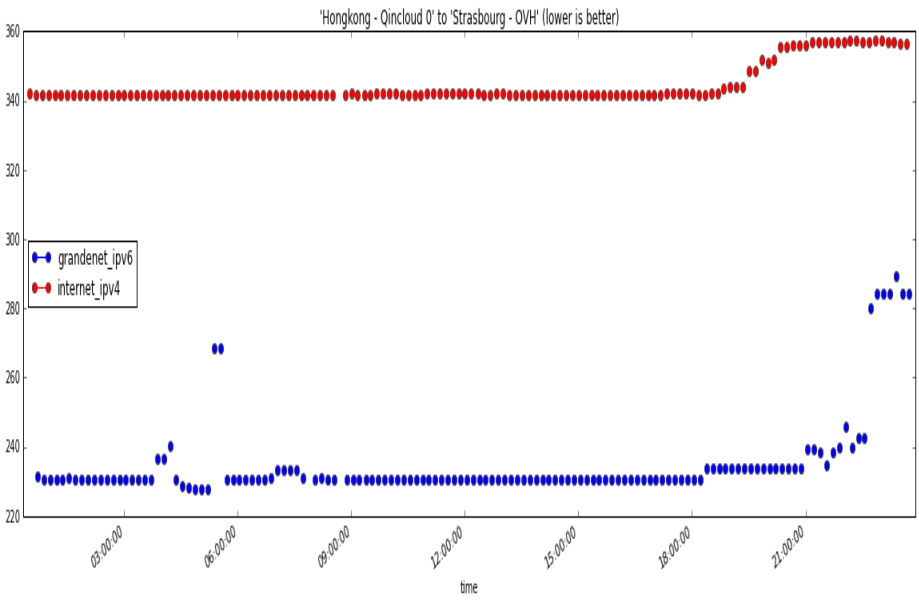
SlapOS EdgePacer is an open source / open hardware plug-and-play solution designed to preserve investment and extend traditional corporate networks with essential edge services: content delivery network (CDN) and IoT buffering. It enhances Wide Area Networking (WAN) with low latency routing, resilient connectivity and IPv6 everywhere. EdgePacer software is based on SlapOS edge computing platform that has been deployed successfully since 2009 in companies such as Airbus, Mitsubishi, SANEF, Kyorin, etc. EdgePacer hardware is based on OLinuXino industrial-grade boards by Olimex, the world leading open hardware producer for 25 years.

Key Benefits

- Plug-and-play
- IPv6 everywhere
- Low latency routing
- HTTP2/QUIC CDN
- IoT data buffering
- Custom edge SDK
- Open Source
- Open Hardware
- -40+85 C operation

Low Latency IPv6 at the Edge

EdgePacer nodes form a decentralised hybrid mesh overlay network a.k.a. *grandenet*. Once SlapOS EdgePacer is connected to a switch, it advertises a dedicated IPv6 address range to the local area network (LAN). Latency between sites is minimised thanks to babel routing protocol (RFC 6126) which prevents packets from travelling thousand kilometres without reason.

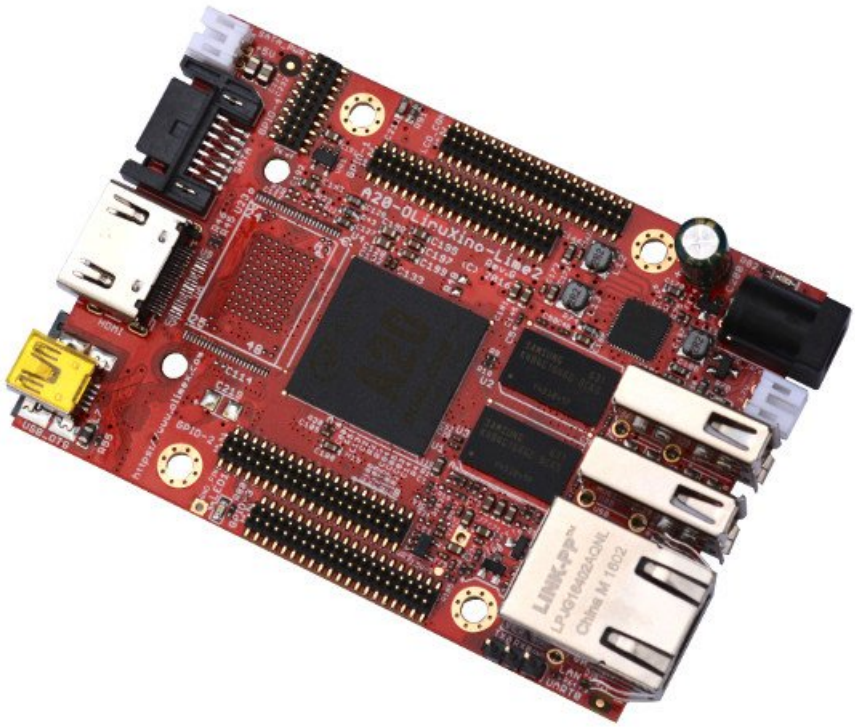


CDN and IoT gateway

EdgePacer nodes runs a local HTTP2/QUIC CDN that accelerates corporate Web sites, applications and REST APIs. It provides a local *fluentd* forwarder that can buffer local IoT data collection and ensure that no more data is lost despite limitations of protocols such as mqtt.

SDK + REST API

A Software Development Kit (SDK) is provided together with the SlapOS EdgePacer so that administrators can configure and add their own edge services. A complete REST API provides full control and simple integration with existing cloud or orchestration systems.



OLinuXino open hardware

OLinuXino are powerful Linux-enabled Open Hardware boards designed and manufactured in Europe. OLinuXino boards are manufactured with components suitable for operation in industrial (-40+85)C temperature range making. They are suitable for deployment in factories or demanding environments. Board CAD files are available online without restrictions.

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