

# Application module for Luminato platform

The Teleste Luminato application module is a complete Linux computer, providing an open platform for application development. It can host new, custom-made applications developed by you, or provided by Teleste as a service.



**Featuring:**

- Ubuntu Linux
- Intel® Atom™ E3845 processor
- 10/100/1000BaseT ports
- USB port, micro SD slot, PCI Express
- 4 GB volatile and 8 GB nonvolatile memory
- Seamless integration with Luminato

**Application examples:**

- Broadcasting streamed internet radio
- Broadcasting Youtube channels
- Stream analyser
- EPG

**Open Linux computer on a headend platform**

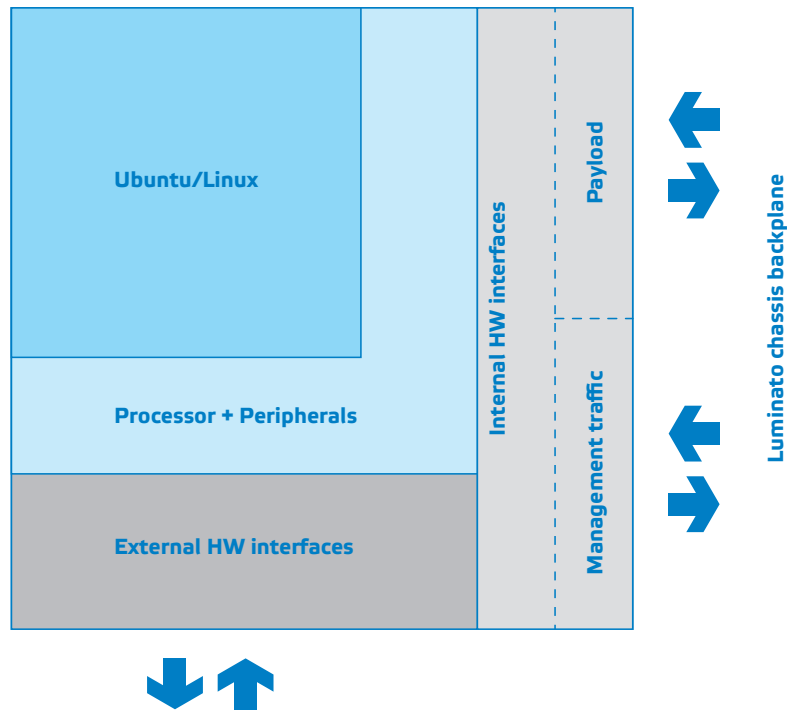
Sometimes the needed headend functionality is simply not available on the market, or implementing it requires several modules. This approach takes a lot of space, and the costs can be really high. The Luminato application module integrates with the Luminato platform and saves space as no separate PC server is needed. The module runs on Ubuntu Linux and allows utilising familiar software programming tools for coding applications addressing niche or more general needs.

**Standard interfaces**

The application module offers superior connectivity: there are two gigabit Ethernet ports for data traffic in and out of the module. In addition, there is a USB port, PCI Express and a micro SD slot available as interfaces for your applications. The module itself is connected to the Luminato platform with gigabit capacity. This internal capacity may be used to stream payload and management traffic from the Application module to other Luminato modules and vice versa.

# Architecture

All development tools that support the Ubuntu/Linux environment can be used to create new and innovative applications. The application module hosts them like any other PC that has similar processor and memory capacity.



## Technical specifications

EXTERNAL INTERFACES		
10/100/1000Base-T	2 pcs	RJ-45
USB 2.0	1 pc	Type A
Micro SD slot	1 pc	Micro SD cards up to 64 GB
INTERNAL INTERFACES		
1000Base-T	1 pc	Luminato switch, payload
100Base-T	1 pc	Luminato switch, management
PCI Express	1 pc	MSata or PCIe (factory configurable)
COMPUTER		
Processor	Intel® Atom™ E3845	(4 x 1.91 GHz, 2 MB L2 cache, 10 W)
Volatile memory	4 GB	1333 MB/s DDR3L dual ch
Non volatile memory	8 GB	eMMC
Power management	ACPI 5.0	
Multistage watchdog & Powerloss control		
SSD disk	MSata	3 TB max. (MBR)
OPERATING SYSTEM		
Ubuntu Linux	14.04 TLS (x86-64)	
GENERAL CHARACTERISTICS		
Supply voltages	24 V	
Power consumption	15 W	
Weight	0,35 kg	
Enclosure classification	IP21	
Operating temperature range	-10...+55 °C	
Storage temperature range	-30...+70 °C	