



Luminato headend platform

APPLICATION MODULE HIGH-DENSITY PC WITH UBUNTU LINUX

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

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. Its Ubuntu Linux OS 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. The internal capacity may be used to stream payload and management traffic from the application module to other Luminato modules and vice versa.

TELESTE

LUMINATO APPLICATION MODULE / HIGH-DENSITY PC WITH UBUNTU LINUX

Architecture

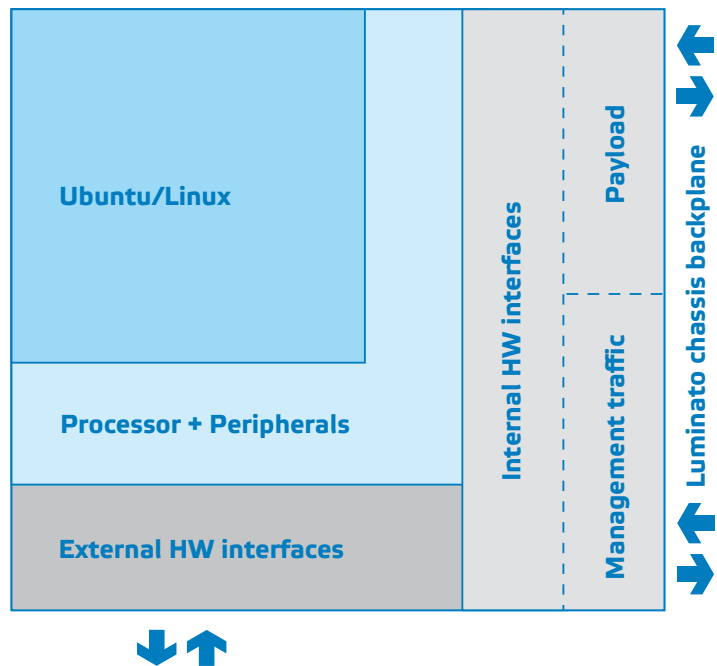
All development tools that support the Ubuntu/Linux environment can be used to create new and innovative applications. The application module hosts them like any other PC that has similar processor and memory capacity.

Features

- 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
- L2TP frame encapsulation (DOCSIS 3.1, distributed access)



Technical specifications

EXTERNAL INTERFACES			OPERATING SYSTEM	
10/100/1000Base-T	2 pcs	RJ-45	Ubuntu Linux	14.04 TLS (x86-64)
USB 2.0	1 pc	Type A	GENERAL CHARACTERISTICS	
Micro SD slot	1 pc	Micro SD cards up to 64 GB	Supply voltages	24 V
INTERNAL INTERFACES			Power consumption	15 W
1000Base-T	1 pc	Luminato switch, payload	Weight	0,35 kg
100Base-T	1 pc	Luminato switch, management	Enclosure classification	IP21
PCI Express	1 pc	MSata or PCIe (factory configurable)	Operating temp. range	-10...+55 °C
COMPUTER			Storage temp. range	-30...+70 °C
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			
SSD disk	MSata	3 TB max. (MBR)		
Multistage watchdog & Powerloss control				

TELESTE CORPORATION

www.teleste.com

P4P_Luminato Application Module_0518

Copyright © 2018 Teleste Corporation. All rights reserved. Teleste and the Teleste logo are registered trademarks of Teleste Corporation. Other product and service marks are property of their respective owners.

Teleste reserves the right to make changes to any features and specifications of the products without prior notice. Although the information in this document has been reproduced in good faith, the contents of this document are provided "as is". Teleste makes no warranties of any kind in relation to the accuracy, reliability or contents of this document, except as required by applicable law.