

## Aurelis MF-2 Optical Switch for data centers

The Aurelis MF-2 Optical Switch is a key part of Nokia’s PON-based out-of-band management (OOBM) solution for data centres. It is a purpose-built solution that enables more efficient OOBM, significantly reducing the number of active switches, simplifying architecture and reducing power consumption.

The Aurelis MF-2 Optical Switch serves as a centralized platform for data center out-of-band management. This high-density solution supports connectivity for up to 4,000 endpoints from a single system, enabling highly scalable OOBM architectures.

Designed for six-nines availability, it features integrated redundancy across all critical components and can be deployed in a redundant pair configuration to further enhance resilience. With market-leading energy efficiency, the Aurelis MF-2 empowers data center operators to scale efficiently and sustainably in the AI supercycle era.



### Key features

- 2RU high-density compact design
- Six-nines availability
- Data and messages AES encryption
- Automated operations
- Managed by Aurelis Command Center

### Key benefits

- Reduces the number of OOBM switches
- Lower power consumption
- Enhanced reliability
- Simpler operations

## Technical specifications

### Full service platform

- Multiservice support
  - IPTV services
  - Multimedia service
  - High-speed Internet access
  - Wi-Fi
  - IoT
  - Cloud-based applications
- LT support
  - 16-port GPON card
  - 16-port Multi-PON card supporting GPON, XGS-PON, Multi-PON and 25G PON
- Network Termination (NT) support
  - Aurelis MF-2 Optical Switch LMNT-B
  - 800 Gb/s switching matrix (bidirectional)
  - Active/Active redundancy
  - 2 QSFP cages supporting 100 GigE, 40 GigE, 4 x 25 GigE or 4 x 10 GigE optics

### Security

- AES encryption

### Management

- Fully managed by the Aurelis Command Center (CC)

### Eco-sustainability

- Complies with the EU Directive 2011/65/EU
- as amended including by Directive 2015/863/EU concerning the Restriction on Hazardous Substances (RoHS)
- Complies with the EU Directive 2021/19/EU concerning product collection and treatment for Wastes from Electrical and Electronic Equipment (WEEE).
- Product packaging materials are free from hydrochlorofluorocarbon (HCFC)
- Plastic product packaging material is marked according to ISO 11469, referring to ISO 1043 (97/129/EEC)

### Standards compliance

- Environmental
  - ETS EN 300 019-1-1 storage
    - Class 1.1 weather-protected, partly temperature controlled locations
  - ETS EN 300 019-1-2 transport
    - Class 2.3 public transportation
  - ETS EN 300 019-1-3 stationary use
    - Class 3.1E and Class 3.3 (assuming no condensation and icing)
  - GR-63-CORE
  - TP76200MP
  - GR-3108-CORE
- Powering
  - ETS EN 300 132-2
- Protection
  - ITU-T K.20 enhanced and K.45 basic
  - GR1089 for Lightning and AC power fault.
- Safety
  - IEC 62 368-1 / EN 62 368-1
  - AS/NZS 62368-1
  - UL62368-1
  - CAN/CSA-C22.2 No. 60950-1-07
  - GR-63- CORE for Fire Spread and Surface Temperature
  - GR-1089-CORE for Electrical Safety, Bonding and Grounding
- EMC
  - ETS EN 300 386 for telecommunications center installation environment
  - ETS ES 201 468
  - GR-1089-CORE – for Radiated Emission, Conducted Emission- FCC part 15 Class
- Acoustic noise
  - ETS 300 753



## Operating conditions

- Operating temperature range: -40°C to +65°C (-40°F to +149°F)
- Relative humidity: 5% to 93% (non-condensing)
- Over-temperature sensors and over-temperature shutdown
- Replaceable low noise Fan Module & Filter

## Power

- Input
- DC-powered:
  - 48/60V DC nominal
  - Fully redundant power feeding (branch A and B)
- AC-powered:
  - 90V-264V AC - Input frequency 50 Hz-60 Hz
  - Separate battery backup connector

## Dimensions

- Height: 88.8 mm (2 RU)
- Width: 448 mm; can be used in 19-inch racks
- Depth: 246.5 mm

## About Nokia

Nokia is a global leader in connectivity for the AI era. With expertise across fixed, mobile, and transport networks, we're advancing connectivity to secure a brighter world.

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Nokia OYJ  
Karakaari 7  
02610 Espoo  
Finland  
Tel. +358 (0) 10 44 88 000

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