

Nokia 7362 ISAM DF-16GW

The Nokia 7362 Intelligent Services Access Manager (ISAM) Dense Fiber (DF)-16GW is a compact, high capacity access node that efficiently addresses the need to deploy fiber and delivers cutting-edge gigabit services in the lower user density areas.

Product overview

The Nokia 7362 ISAM DF-16GW is a one rack unit (1 RU) optical line terminal (OLT) that supports a variety of fiber technologies such as Gigabit Passive Optical Network (GPON), 10 Gigabit Symmetrical PON (XGS-PON) and time and wavelength division multiplexing PON (TWDM-PON). It supports 8 x 10 GigE uplinks and 16-port GPON or 4-port XGS-PON/TWDM-PON downlinks. This feature enables up to 80 Gb/s of uplink capacity and 40 Gb/s of GPON/XGS-PON/TWDM-PON downlink capacity, giving a total system throughput of up to 120 Gb/s full duplex.

Service providers have maximum flexibility for deploying the Nokia 7362 ISAM DF-16GW in the central office (CO) (rack mountable), in cabinets, within multi-dwelling units (MDUs), office buildings or remote weather-protected locations. The Nokia 7362 DF-16GW is part of the ISAM product family and uses the same software and management system as other products in the portfolio, allowing for different deployment options based on technoeconomics, local regulations or services offered.



Features

- High capacity throughput: up to 120 Gb/s full duplex
- Downlink interfaces: fixed configuration supports either 16-port GPON or 4-port universal next-generation (NG)-PON (XGS-PON/TWDM-PON) and provides 10/10 Gb/s symmetric and/or 10/2.5 Gb/s asymmetric
- Uplink interfaces: 8 x 1/10 Gb/s small form-factor pluggable (SFP) modules
- Pluggable, field-replaceable and low acoustic fan unit
- Field-replaceable dust filter
- Deployed indoor or in cabinets
- Rack mountable in 482.6 mm (19 in) racks, 584.2 mm (23 in) or standard 600 mm (23.6 in) ETSI rack

Benefits

- High-bandwidth capacity to meet the demand now and in the future
- Supports GPON and universal NG-PON (XGS-PON/TWDM-PON)
- Small shelf size, compact 1 RU access node that operates as a standalone mini OLT
- Rack mountable in the CO and temperature hardened for outside cabinet deployments
- Different power options
- Fan cooled with low noise fan
- One ISAM family: any technology, any service and any deployment model
- Supports existing practices and proven ISAM technology

Technical specifications

Product specifications

Full service platform

- Multiservice access support
 - IPTV services
 - Multimedia services
 - High-speed internet access (HSIA)
 - Business access
 - Cell site backhaul support
 - 16-port GPON using 8 dual GPON XFP optics
 - 4-port XGS-PON or TWDM-PON
- Network Termination (NT) support
 - 120 Gb/s switching capacity
 - Link aggregation (LAG)
 - 80 Gb/s uplink capacity
 - SFP+ cages

Management

- Fully managed by the Nokia 5520 Access Management System (AMS)
- Simple Network Management Protocol (SNMP) and command line interface (CLI)-based management system

Eco-sustainability

- Power consumption targets code of conduct (CoC) power consumption limits
- Compliant with the European directive 2002/95/EC on the restriction of the use of certain hazardous substances (RoHS)
- Product collection and treatment under Nokia responsibility complies with the national laws on product treatment applied at the end of life for wastes from electrical and electronic equipment (WEEE), implementing the European Directive (2002/96/EC)
- Product packaging materials are free from hydrochlorofluorocarbons (HCFCs)
- Plastic product packaging material is marked according to ISO 11469, referring to ISO 1043 (97/129/EEC)

Standard 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 3.3 and Class 3.4
 - GR-63-CORE
 - GR-3108-CORE Powering
 - ETS EN 300 132-2
- Protection
 - ITU-T K.20 enhanced and K.45 basic

- Safety
 - IEC 60950, EN 60950 Class 1, AS/NZS 60950.1
 - UL/CSA 60950-1-03
 - EN 60950-1
- EMC
 - ETS EN 300 386 for telecommunications center installation environment
 - ETS ES 201 468
 - GR-1089-CORE
 - FCC Part 15 Class A
 - EN 55022
- Acoustic noise
 - ETS 300 753

Operating environment

- Temperature: -40°C to 65°C (-40°F to 149°F)
- Relative humidity: 5% to 93%, non-condensing
- Over-temperature sensors and shutdown

Power

- Input
 - AC power: 85 V to 280 V AC, 47 Hz to 63 Hz with battery backup
 - DC power: -36 V DC to -72 V DC using redundant DC power inputs

Dimensions

- Height: 44 mm (1 RU) (1.7 in)
- Width: 442 mm (17.4 in)
- Depth: 267.5 mm (10.5 in), including optical modules and fan tray handle

Weight

- 5.6 kg (12.3 lb)

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