

# Nokia 7215 IXS-A1

## Interconnect System for SONiC

The high-performance, fixed-configuration Nokia 7215 IXS-A1 system is designed to manage data center leaf and spine connectivity requirements for telecommunication providers, AI and cloud providers, and mission-critical enterprise environments. It offers 10GE and 1GE interfaces for intra-fabric out-of-band management.

### Overview

High-bandwidth servers are driving the need for greater port speeds and density in data center architectures. Similarly, the need for more power-efficient and state-of-the-art network operating system (NOS) design is driving the modernization of network aggregation and interconnect within data centers.

The 7215 IXS-A1 is optimized for management connectivity in data center designs. It delivers a robust and comprehensive set of capabilities, including IP routing, Layer 2, QoS, telemetry and model-driven management.

The 7215 IXS-A1 is 1RU high with a system capacity of 88 Gb/s full duplex (FD). It is equipped with 48 x 10/100/1000 Mb/s RJ45 ports and 4 x 1/10G SFP+ ports.

The 7215 IXS-A1 is offered in distinct integrated variants, each configured with either redundant AC or redundant DC power supplies and with front-to-back or back-to-front airflow.

The 7215 IXS-A1 supports an optional Modular GPU Accelerated Server (MGX) rack adapter, enabling seamless integration with MGX-accelerated computing racks and speeding up the deployment of GPU-based AI and high-performance computing infrastructure.



7215 IXS-A1

### SONiC

Software for Open Networking in the Cloud (SONiC) is an open-source NOS based on Linux. It offers a full suite of network functionality which has been production-hardened in the data centers of some of the largest cloud-service providers.

SONiC offers teams the flexibility to create the network solutions they need while leveraging the collective strength of a large ecosystem and community.

### Software features

SONiC offers a comprehensive set of open source features that are readily available and maintained via the SONiC community. For a complete list of capabilities and software support functions, please consult the SONiC website.



## Technical specifications

Table 1. Nokia 7215 IXS-A1 for SONiC specifications

Feature	Parameter
System throughput Full duplex (FD)	88 Gb/s
Ports	4 x SFP+ 48 x RJ45
Hardware support (maximum ports per chassis)	
10GE	4
1GE	4
1000/100/10 Mb/s	48
Management ports	1 x 1000Base-T
USB ports	1 x USB 2.0
Console ports	1x RJ45
Processor	4-core ARM
Memory	8 GB DDR4
Memory buffer size	3 MB
Storage	16 GB eMMC
Power	Integrated; Fixed, redundant AC power or redundant DC power systems (orderable variants) AC: 100V to 240V DC: -48 V/ -60V 100 W AC 100 W DC
Fan modules	Integrated; Fixed, redundant front-to-back or back-to-front airflow systems (orderable variants)
Dimensions	Height: 4.37 cm (1.72 in); 1 RU Width: 43.85 cm (17.26 in) Depth: 25.38 cm (9.99 in)
Weight	3.54 kg (7.8 lb)
Mounting options	2-post; 4-post with rail kit option
Discrete Trusted Platform Module (TPM)	Yes
Normal operating temperature range (sustained)	0°C to +40°C (32°F to +104°F)
Shipping and storage temperature range	-20°C to +70°C (-4°F to +158°F)
Normal humidity	5% to 95%, non-condensing



Table 2. MGX rack adapter specifications (optional)

The MGX rack adapter is designed for use in an MGX-accelerated computing rack. The adapter includes an airflow vent, a DC bus-bar connector, a power switch, DC power connectors, and an integrated ground cable with an attachment lug. The Nokia 7215 IXS-A1 and the MGX rack adapter are installed in the rack using sliding rails.

Feature	Parameter
<b>Adapter without system and slide rails installed</b>	
Dimensions	Height: 1.67 in. (4.25 cm) Width: 17.26 in. (43.85 cm) Depth: 23 in. (58.45 cm)
Weight	7.58 lb (3.42 kg)
<b>Adapter with system and slide rails installed</b>	
Dimensions	Height: 1.72 in. (4.37 cm) Width: 19.07 in. (48.45 cm) Depth: 33.46 in. (85 cm)
Weight	Excluding outer rack rails: 16.19 lb (7.33 kg) Including outer rack rails: 22.24 lb (10.08 kg)

## Standards compliance<sup>1</sup>

### Environmental

- ETSI EN 300 019-2-1; Storage Tests, Class 1.2
- ETSI EN 300 019-2-2; Transportation Tests, Class 2.3
- ETSI EN 300 019-2-3; Operational Tests, Class 3.2
- ETSI EN 300 753; Acoustic Noise, Class 3.2
- GR-3160-CORE

### Electromagnetic compatibility

- AS/NZS CISPR 32 Class A
- BSMI CNS 15936 Class A
- BT GS-7
- EN 55035
- EN 55032 Class A
- ETSI EN 300 132-1 (AC)
- ETSI EN 300 132-2 (DC)
- ETSI EN 300 386
- ETSI ES 201 468
- FCC Part 15 Class A

- ICES-003 Class A
- IEC CISPR 32 Class A
- IEC CISPR 35
- IEC/ EN 61000-3-2
- IEC/EN 61000-3-3
- IEC/EN 61000-6-2
- IEC/EN 61000-6-4
- KCC Korea - Emissions KS C 9832
- KCC Korea - Immunity KS C 9835
- VCCI Class A

### Safety

- AS/NZS 62368-1
- FDA CDRH 21-CFR 1040
- IEC/BS/EN 60825-1
- IEC/BS/EN 60825-2
- IEC/UL/CSA/BS/EN 62368-1

<sup>1</sup> System design intent is according to the listed standards. Refer to product documentation for detailed compliance status.



## Directives and regional approvals

- Directive 2011/65/EU RoHS (including Commission Delegated Directive EU 215/863)
- Directive 2012/19/EU WEEE
- Directive 2014/30/EU EMC
- Directive 2014/35/EU LVD
- CE Mark: Europe
- CRoHS: China RoHS
- KC Mark: South Korea
- RCM Mark: Australia
- UKCA Mark: United Kingdom
- VCCI Mark: Japan
- BSMI Mark: Taiwan

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