

Nokia 7215 IXS-C1 Interconnect System for SONiC

As part of the Nokia Data Center switching portfolio, the Nokia 7215 IXS-C1 Interconnect System is a high-density console manager that provides centralized connectivity for management console ports in rack systems deployed by AI and cloud service providers, telecommunications service providers, and mission-critical enterprises.

Overview

The data center landscape is evolving rapidly to meet the demands of the AI era while also supporting traditional workloads. Data center infrastructure requires a simple solution for connecting to the management console ports of data center servers, top-of-rack switches, spine nodes and leaf nodes in a rack.

The fixed-configuration Nokia 7215 IXS-C1 system is designed to simplify data center management console requirements. It offers RS232 interfaces for console connectivity and 1GE SFP interfaces data uplink connectivity.

The 7215 IXS-C1 delivers a robust and comprehensive set of capabilities needed for this role, including IP routing protocols and model-driven management.

The 7215 IXS-C1 is a 1RU-high system with three 1GE physical interfaces and support for up to 1 Gb/s of aggregate throughput in the current software release. It is equipped with forty-eight RS-232 RJ45 serial ports, two 1GE SFP ports, and one RJ45 (GE/FE) port.

The 7215 IXS-C1 is an integrated system that supports redundant AC power supplies and fans with front-to-back airflow.



7215 IXS-C1

SONiC

The Nokia 7215 IXS-C1 implements Software for Open Networking in the Cloud (SONiC)—an open-source network operating system (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 world-wide.

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

Feature	7215 IXS-C1
System aggregate throughput	Up to 1 Gb/s
Ports	48 x RS232 RJ45 2 x 1G SFP 1 x RJ45 (GE/FE)
Hardware support (maximum ports per chassis)	
RS232 RJ45 serial ports	48
1GE ports	3
USB ports	1 x USB 2.0
Console port	1x RJ45
Processor	4-core ARM
Memory	16 GB DDR4
Storage	32 GB eMMC
Power	Integrated (fixed), redundant AC AC: 90V to 240V 100 W each
Fan modules	Integrated (Fixed), redundant Front-to-back airflow
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 2.0)	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

Standards compliance¹

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 300 386
- ETSI ES 201 468

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



- 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

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
- BSMI Mark: Taiwan
- CE Mark: Europe
- CRoHS: China RoHS
- KC Mark: South Korea
- RCM Mark: Australia
- UKCA Mark: United Kingdom
- VCCI Mark: Japan

About Nokia

At Nokia, we create technology that helps the world act together.

As a B2B technology innovation leader, we are pioneering networks that sense, think and act by leveraging our work across mobile, fixed and cloud networks. In addition, we create value with intellectual property and long-term research, led by the award-winning Nokia Bell Labs, which is celebrating 100 years of innovation.

With truly open architectures that seamlessly integrate into any ecosystem, our high-performance networks create new opportunities for monetization and scale. Service providers, enterprises and partners worldwide trust Nokia to deliver secure, reliable and sustainable networks today – and work with us to create the digital services and applications of the future.

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