

Nokia 7250 IXR-R Interconnect Routers

Release 20

The Nokia 7250 Interconnect Router R-series (IXR-R-series)¹ offers high port density in compact, modular, extended-temperature form factors. Routers in this series are ideal for IP anyhaul, aggregation, fixed-mobile convergence and mission-critical applications.

There are two platforms in the R-series: the 7250 IXR-R6 and the IXR-R4. Using these routers, service providers can rapidly create and deploy new services while extending the lifetime of their existing infrastructure investment. Public and private enterprises can efficiently expand their aggregation networks.

New service opportunities

The 7250 IXR-R series supports new 5G transport requirements. It delivers low latency for fronthaul, Internet of Things (IoT) and mission-critical applications while providing a large buffer memory for less delay-sensitive applications.

Per-service queuing features support differentiated quality of service (QoS), which is ideal for any-G aggregation and fixed-mobile network convergence. These features also help industrial enterprises attain IT/OT convergence by simultaneously carrying both their business and operational traffic.

Network operators who upgrade to the 7250 IXR-R series today will be ready to meet new service demands for many years to come.



7250 IXR-R6



7250 IXR-R4

Automation

The 7250 IXR-R series uses the Nokia Service Router Operating System (SR OS) and is managed by the Nokia Network Services Platform (NSP). The NSP offers a rich set of service management features that automates new service delivery and reduces operating cost.

Standards-based software-defined networking (SDN) interfaces enable best-path computation to be offloaded to SDN controllers such as the Nokia NSP. 7250 IXR-R-series routers, operating as path computation clients (PCCs), collect and report

¹ The 7250 IXR-R-series is part of the 7250 IXR product family. Additional data sheets are available for other models in this product family.

Standards compliance⁴

Environmental specifications

- ATIS-0600015.03
- ATT-TP-76200
- 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-63-CORE
- GR-295-CORE
- GR-3108-CORE
- VZ-TPR-9205
- VZ.TPR.9203 (CO)

Safety

- AS/NZS 60950.1/62368.1
- IEC/EN 60825-1
- IEC/EN 60825-2
- IEC/EN/UL/CSA 60950-1 Ed2
- IEC/EN/UL/CSA 62368-1 Ed2

Electromagnetic compatibility

- AS/NZS CISPR 32 Class A
- ATIS-0600315.2013
- BSMI CNS13438 Class A
- BT GS-7
- EN 300 386
- EN 301 489-1
- EN 301 489-17 (Bluetooth)
- EN 301 489-19 (GNSS)
- EN 55032 Class A

- EN 55024
- ES 201 468
- ETSI EN 300 132-2
- FCC Part 15 Class A
- GR-1089-CORE
- ICES-003 Class A
- IEC 61000-6-2
- IEC 61000-6-4
- IEC CISPR 24
- IEC CISPR 32 Class A
- IEC/EN 61000-4-2 ESD
- IEC/EN 61000-4-3 Radiated Immunity
- IEC/EN 61000-4-4 EFT
- IEC/EN 61000-4-5 Surge
- IEC/EN 61000-4-6 Conducted Immunity
- IEC/EN 61000-4-11 Voltage Interruptions
- KCC Korea-Emissions & Immunity (in accordance KN32/35)
- KN 301 489-1
- KN 301 489-17 (Bluetooth)
- VCCI Class A

Directives, regional approvals and certifications

- DIRECTIVE 2011/65/EU Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment (Recast) Directive (RoHS2)
- DIRECTIVE 2012/19/EU Waste Electrical and Electronic Equipment (WEEE)
- DIRECTIVE 2014/30/EU Electromagnetic Compatibility (EMC)
- DIRECTIVE 2014/35/EU Low Voltage Directive (LVD)
- DIRECTIVE 2014/53/EU Radio Equipment Directive (RED)

⁴ System design intent is according to standards listing. Refer to product documentation for detailed compliance status.



- NEBS Level 3:
 - Australia: RCM Mark
 - China RoHS: CRoHS
 - Europe: CE Mark
 - Japan: VCCI Mark
 - South Korea: KC Mark
 - Taiwan: BSMI Mark

Power utility substations

- IEEE 1613 (exception, forced air system)
- IEEE 1613.1
- IEC 61000-6-5
- IEC 61850-3 (normal environmental conditions)
- IEC/AS 60870.2.1

Railway

- EN 50121-4
- IEC 62236-4

About Nokia

We create the technology to connect the world. Only Nokia offers a comprehensive portfolio of network equipment, software, services and licensing opportunities across the globe. With our commitment to innovation, driven by the award-winning Nokia Bell Labs, we are a leader in the development and deployment of 5G networks.

Our communications service provider customers support more than 6.4 billion subscriptions with our radio networks, and our enterprise customers have deployed over 1,300 industrial networks worldwide. Adhering to the highest ethical standards, we transform how people live, work and communicate. For our latest updates, please visit us online www.nokia.com and follow us on Twitter [@nokia](https://twitter.com/nokia).

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