


















# Data Center Switching Portfolio

Bring new levels of reliability, simplicity and adaptability to your data center switching and cloud infrastructures








## Shallow Buffer Switches

- Fixed-configuration, high-performance 7220 Interconnect Router (IXR) platforms for data center leaf, spine, front-end network and back-end network deployments
- Flexible native and breakout options with support for 1.6T, 800G, 400G, 200G, 100G, 50G, 40G, 25G, 10G and 1G interfaces
- Universal connectors enables seamless integration of a broad range of compatible optics, including 800G QSFP-DD, 800G OSFP and 1.6T OSFP optics
- Multiple platforms with system capacities up to 102.4 Tb/s, including a liquid cooled (LC) option
- Hot-swappable and redundant power supplies and fans
- Powered by Nokia SR Linux and community SONiC® (on select platforms)

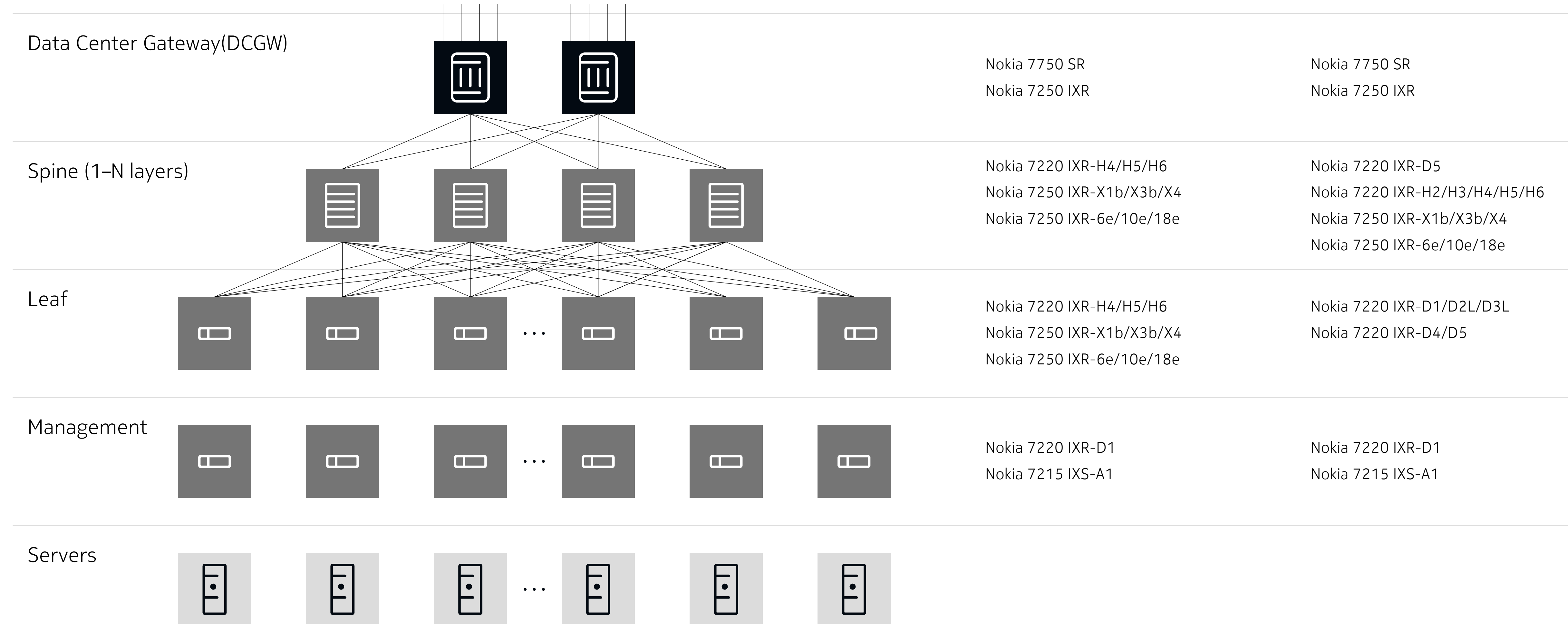
 <p><b>7220 IXR-D1</b> • 88 Gb/s (FD); fixed; 1RU • 4 x 10G SFP+ • 48 x 10/100/1000M RJ45</p>	 <p><b>7220 IXR-D2L</b> • 2.0 Tb/s (FD); fixed; 1RU • 8 x 100G QSFP28 • 48 x 25G SFP28 • 2 x 10G SFP+</p>	 <p><b>7220 IXR-D4</b> • 6.0 Tb/s (FD); fixed; 1RU • 8 x 400G QSFP-DD • 28 x 100G QSFP28</p>	 <p><b>7220 IXR-H2</b> • 12.8 Tb/s (FD); fixed; 4RU • 128 x 100G QSFP28</p>	 <p><b>7220 IXR-H4</b> • 25.6 Tb/s (FD); fixed; 2RU • 64 x 400G QSFP-DD • 2 x 10G SFP+</p>	 <p><b>7220 IXR-H5-32D</b> • 25.6 Tb/s (FD); fixed; 1RU • 32 x 800G QSFP-DD • 2 x 10G SFP+</p>	 <p><b>7220 IXR-H5-64D</b> • 51.2 Tb/s (FD); fixed; 2RU • 64 x 800G QSFP-DD • 2 x 10G SFP+</p>	 <p><b>7220 IXR-H6-64</b> • 102.4 Tb/s (FD); fixed; 3RU • 64 x 1.6T OSFP • 2 x 25G SFP28</p>	 <p><b>7220 IXR-H6-64 LC</b> • 102.4 Tb/s (FD); fixed; 2RU • 64 x 1.6T OSFP • 2 x 25G SFP28</p>	 <p><b>7220 IXR-H6-128</b> • 102.4 Tb/s (FD); fixed; 4RU • 128 x 800G OSFP • 2 x 25G SFP28</p>
 <p><b>7215 IXS-A1</b> • 88 Gb/s (FD); fixed; 1RU • 4 x 10G SFP+ • 48 x 10/100/1000M RJ45</p>	 <p><b>7220 IXR-D3L</b> • 3.2 Tb/s (FD); fixed; 1RU • 32 x 100G QSFP28 • 2 x 10G SFP+</p>	 <p><b>7220 IXR-D5</b> • 12.8 Tb/s (FD); fixed; 1RU • 32 x 400G QSFP-DD • 2 x 10G SFP+</p>	 <p><b>7220 IXR-H3</b> • 12.8 Tb/s (FD); fixed; 1RU • 32 x 400G QSFP-DD • 2 x 10G SFP+</p>	 <p><b>7220 IXR-H4-32D</b> • 12.8 Tb/s (FD); fixed; 1RU • 32 x 400G QSFP-DD • 1 x 10G SFP+</p>	 <p><b>7220 IXR-H5-64O</b> • 51.2 Tb/s (FD); fixed; 2RU • 64 x 800G OSFP • 2 x 10G SFP+</p>	 <p><b>7220 IXR-H6-128</b> • 102.4 Tb/s (FD); fixed; 4RU • 128 x 800G OSFP • 2 x 25G SFP28</p>			

## Deep Buffer Switches

- Terabit-scale, modular and fixed 7250 Interconnect Router (IXR) platforms designed for data center spine, back-end network and WAN deployments
- Industry-leading design and density with taller line card pitch and honeycomb mesh air intakes
- Modular platforms use high-quality orthogonal direct cross-connect with no midplane connectors to limit system lifespan
- Designed for upgradability, with fabric and cooling tuned for ultra-low power consumption today and tomorrow
- Flexible native and breakout options with support for 800G, 400G, 200G, 100G, 50G, 40G, 25G and 10G interfaces
- Universal connectors enables seamless integration of a broad range of compatible optics, including 800G QSFP-DD, 800G OSFP and ZR/ZR+ coherent optics
- Powered by Nokia SR Linux and community SONiC® (on select platforms)

 <p><b>7250 IXR-X1b</b> • 7.2 Tb/s (FD); fixed; 1RU • 24 x 100G QSFP28 • 12 x 400G QSFP-DD</p>	 <p><b>7250 IXR-X3b</b> • 14.4 Tb/s (FD); fixed; 1RU • 36 x 400G QSFP-DD</p>	 <p><b>7250 IXR-X4 (QSFP-DD)</b> • 25.6 Tb/s (FD); fixed; 1RU • 32 x 800G QSFP-DD</p>	 <p><b>7250 IXR-X4 (OSFP)</b> • 25.6 Tb/s (FD); fixed; 1RU • 32 x 800G OSFP</p>	 <p><b>7250 IXR-6e</b> • 115.2 Tb/s (FD); 10RU • 4 slots, 28.8 Tb/s (FD) each • 144 x 800G QSFP-DD • 144 x 800G OSFP • 288 x 400G QSFP-DD • 288 x 400G OSFP • 1152 x 100G QSFP28</p>	 <p><b>7250 IXR-10e</b> • 230.4 Tb/s (FD); 16RU • 8 slots, 28.8 Tb/s (FD) each • 288 x 800G QSFP-DD • 288 x 800G OSFP • 576 x 400G QSFP-DD • 576 x 400G OSFP • 2304 x 100G QSFP28</p>	 <p><b>7250 IXR-18e</b> • 460.8 Tb/s (FD); 35RU • 16 slots, 28.8 Tb/s (FD) each • 576 x 800G QSFP-DD • 576 x 800G OSFP • 1152 x 400G QSFP-DD • 1152 x 400G OSFP • 4608 x 100G QSFP28</p>
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## Implement networks for AI as well as traditional general-purpose workloads



**Back-end networks** deliver lossless, low latency interconnect for high-value GPU resources required for AI training, AI inference or other HPC workloads

**Front-end networks** deliver connectivity for AI workloads, general-purpose workloads (non-AI compute) and management of AI workloads

## Service Router Linux (SR Linux)

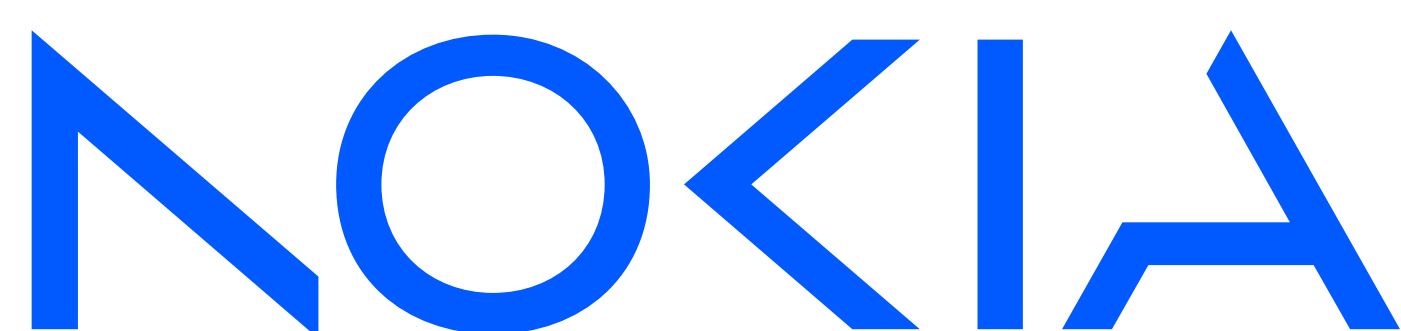
- A Linux®-based NOS that enables scalability, flexibility and efficiency
- Open, extensible architecture built around model-driven management and modern interfaces
- Field-proven routing protocol stacks from the Nokia Service Router Operating System (SR OS)
- Industry-leading streaming telemetry framework provides ubiquitous data access
- State-of-the-art NetOps Development Kit (NDK) for customized network agents and applications

## Community SONiC

- SONiC® open-source NOS leverages the strength of a large ecosystem and community
- Brings choice and flexibility to data center and cloud environments
- Supported on specific Nokia data center platforms for a broad range of deployment roles

## Event-driven Automation (EDA)

- Automate the entire data center network lifecycle for consistent and reliable performance
- Abstracts the complexity of multivendor networks with exceptional insight into network operations
- Provision and monitor data center network in real time to ensure it operates as expected
- Built on Kubernetes, leveraging a vast open-source ecosystem to lower risks and barriers to entry
- Compatible with various tools and public clouds for a versatile integration framework



Explore the Nokia Data Center Fabric portfolio



Explore the Nokia IP Routing portfolio



Data center networks design hub

- Access to a rich library of resources
- Nokia Validated Designs (NVDs) are rigorously tested for reliable deployment
- Reference designs deliver alternate architectures and product capabilities
- Technical briefs provide clear insights on complex networking technologies