

## NXT-G48C210R

48 x 1G RJ45, 4 x 25G SFP28, 2 x 100G QSFP28 ports with Trident 3

The Tyrone's NXT-G48C210R is a high-performance Gigabit Ethernet Layer 3 switch featuring 54 ports; the NXT-G48C210R has 48 x 10/100/1000BASE-T ports, 4 x 25G SFP28 uplink ports, and 2 x 100G QSFP28 uplink ports. The NXT-G48C210R is ideal as a data center top-of-rack, enterprise, or campus switch, it includes redundant hot-swappable AC PSUs and power-to-port airflow. This open network switch is loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible Network Operating System software, including the open-source options, plus commercial NOS offerings.



Freedom of choice



Greater Control



Rapid Innovation



Reduced CAPEX and OPEX

onie

Free Software Included



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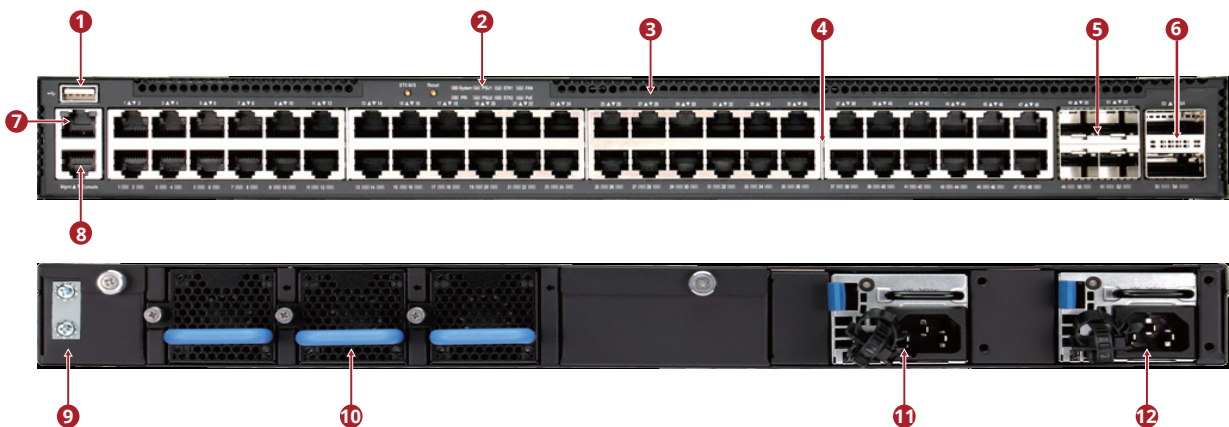


OPEN Compute Project®

## Key Features

- 1 GbE connections to server and storage nodes in rack, with 25 GbE uplinks to spine network.
- 48 x 100/1000BASE-T RJ-45 ports.
- 4 x 25G SFP28 uplink ports Supporting 10GbE/25GbE
- 2 x 100G QSFP28 stacking ports (Subject to NOS implementation).
- Management Ports -1 x RJ-45 serial console, 1 x RJ-45 100/1000BASE-T management
- Full line-rate L2 or L3 forwarding and switching.
- Cost-effective, open network switch for data center racks or enterprise environment
- With SONiC open-source network software(Optional).
- With TPM 1.2 feature for security enhancements
- With secure boot feature for security enhancements
- Based on Broadcom BCM56371 (Trident III)
- Jumbo frames support up to 12,288 Bytes
- 8 MB integrated packet buffer
- 4L VLAN IDs
- 1U rack-mountable

## Interfaces



### Description

1. USB storage port	5. 4 x 10G/25G SFP28 ports	9. Grounding point
2. System LEDs	6. 2 x 100G QSFP28 stacking ports	10. Hot-swappable 2 + 1 redundant fans
3. Port indicators	7. Management port	11. PSU 2
4. 48 x 10/100/1000BASE-T RJ-45 ports	8. Console port	12. PSU 1



## PORTS

- **Switch Ports:**
  - 48 x 10/100/1000BASE-T RJ-45 ports
  - 4 x 10G/25G SFP28 uplink ports
  - 2 x 100G QSFP28 stacking ports (requires NOS to support hardware stacking feature)

**Note:** When a DAC cable is used in a topology, a link issue may be encountered if the CR4 Auto-Negotiation/Link Training does not turn on. This can be solved by manually enabling CR4 Auto Negotiation/Link Training.

- **Management Ports:**
  - 1 x RJ-45 serial console
  - 1 x RJ-45 100/1000BASE-T management port
  - 1 x Type-A USB storage port
- **Supported Transceivers and Cables:**
  - 10GBASE-RJ-45
  - 10G-DAC/AOC Cable
  - 25GBASE-SR/LR
  - 25G-DAC/AOC Cable
  - 40GBASE-SR4/LR4
  - 40G-DAC/AOC Cable
  - 100GBASE-SR4/CWDM4/LR4
  - 100G-DAC/AOC Cable

## KEY COMPONENTS

- Switch Silicon: Broadcom BCM56371 Trident III 480 Gbps
- CPU: Intel Atom/Denverton C3558 4-cores 2.2 GHz x86 processor
- DDR4: 8 GB x 2 SO-DIMM
- SPI Flash: 16 MB x 2
- m.2 SSD: 32 GB MLC
- TPM 1.2 with LPC Interface

## POWER

- PSUs: 2 redundant, load-sharing, hot-swappable AC
- AC input range: 100–240 VAC, 50-60 Hz
- Redundant, current sharing, PG
- Power Rating: 150 Watts

## PERFORMANCE

- Switching Capacity: 348 Gbps
- Forwarding Rate: 744 Mpps
- MAC Addresses: 16K min./112K max.
- VLAN IDs: 4K
- Jumbo Frames: Up to 12,288 bytes
- Packet Buffer Size: 8 MB Integrated packet buffer memory

## LEDS

- 1GE RJ-45 Port LEDs: Link Status, Activity
- SFP28 Port LEDs: Link Speed, Link Status, Activity
- QSFP28 Port LEDs: Link Speed, Link Status, Activity
- Ethernet Management Port LED: Link Status, Activity
- System LEDs: PRI, PSU1, PSU2, STK1, STK2, FAN

## PHYSICAL AND ENVIRONMENTAL

- Dimensions (WxDxH): 43.8 x 47.4 x 4.4 cm (17.24 x 18.66 x 1.73 in)
- Weight: 6.98 kg (15.39 lb), with two installed PSUs
- Operating Temperature: 0°C to 40°C (32°F to 104°F)
- Storage Temperature: -40°C to 70°C (-40°F to 158°F)
- Operating Humidity: 5% to 95% non-condensing

## SOFTWARE

- Switch is loaded with Open Network Install Environment (ONIE) software installer
- Compatible with the following NOS options: open source options, plus commercial NOS offerings.

## FOR MORE INFORMATION

To find out more about Tyrone NXT's products and solutions, visit [www.tyronesystems.com/networking](http://www.tyronesystems.com/networking)



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OPEN NETWORKING



FLEXIBILITY



SMART FEATURES



LAYER 2/3  
FUNCTIONALITY



COST-EFFICIENT



25G UPLINK

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