

# S9511-20CT

## DISAGGREGATED CELL SITE GATEWAY ROUTER

The UfiSpace S9511-20CT is a high-performance, versatile open networking white box router that is designed to address the changing needs of backhaul transport requirements as Telecoms make the transition from legacy technologies towards 5G. It enables telecoms and service providers to deploy disaggregated open network infrastructure to lower costs and rapidly scale existing services for edge computing, mobile backhaul, and broadband access applications.

The S9511-20CT is designed for the future, featuring 20 high-speed interfaces, including configurable 1G combo ports and 10G/25G options, to support a wide range of client connections. With a compact 250mm depth and a temperature-hardened design, it's ideal for both indoor and outdoor deployments.

## KEY FEATURES

- Broadcom Qumran2n silicon
- Supports full SyncE and IEEE 1588v2 (T-GM, T-BC/OC, T-TC)
- Integrated Stratum 3E OCXO with optional hold over performances
- Class C timing accuracy support
- Rich timing interfaces: 10MHz, 1PPS, ToD, and BITS
- Internal GNSS receiver for master clock implementations
- Configurable 1G combo ports
- 1 RU small form factor with 250mm depth
- Segment Routing support

## KEY BENEFITS

- Compatible with open networking standards for highly reliable composable networks.
- Future-proof for 5G with ultra-low forwarding latency, high precision frequency and phase timing synchronizations.
- Temperature hardened to offer more flexibility for deploying outside plant cabinets for cell site backhuls.
- Low maintenance, low servicing and lightweight for easy handling.



SPECIFICATIONS

PHYSICAL

♦ 8 x 1/10/25G SFP28 ports	
♦ 8 x 1/10G SFP+ ports	
♦ 4 x 1G RJ45/SFP combo ports	
♦ 1 x RJ45 serial console port	
♦ 1 x 100/1000M RJ45 management port	
♦ 1 x USB 3.0 Type-A port	
Processor	Intel Denverton-NS 4-Core @ 1.6GHz
Memory	8GB DDR4
Storage	32GB eMMC
ASIC	Broadcom Qumran2n BCM88295
Timing Interfaces	1 x GNSS input SMA 1 x 10MHz input/output SMB 1 x 1PPS input/output SMB 1 x ToD input/output RJ45 1 x BITS input RJ48
Timing Support*	Stratum 3E OCXO ITU-T Synchronous Ethernet (SyncE) IEEE 1588v2 - Default, G.8265.1 G.8275.1, G.8275.2, SMPTE ST 2059-2+, T-GM, T-BC/OC, T-TC
Chassis (WxDxH)	1 RU, 440 x 250 x 43.5mm or 17.32" x 9.84" x 1.713" Weight: 4.2kg or 9.25lb
Redundancy	Dual-feed one power stage PSU Fixed, 3+1 redundant Fans

\*NOS integration is necessary to activate the specific feature.  
\*\*Additional license is required

S9511-20CT

Telecom  
Networking  
Solutions

ENVIRONMENTAL

Power Specs.	DC input: -36 to -72V, 8A Typical power: 63 Watts (no transceiver)
Max. Operating Specs.	Operating temperature: -40°C to 70°C (-40°F to 158°F) Operating humidity: 5% to 95% (RH), non-condensing
Max. Non-Operating Specs.	Storage temperature: -40°C to 70°C (-40°F to 158°F) Storage humidity: 5% to 93% (RH), non-condensing

PERFORMANCE

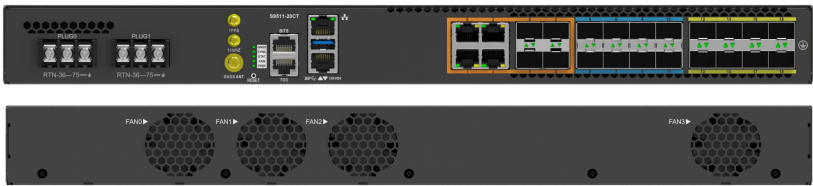
Switching Capacity	100Gbps
Deep Buffer	1GB

REGULATORY COMPLIANCE

Safety	UL 62368-1 IEC 60950-1 IEC 62368-1 BSMI	EMC	FCC Part 15, Subpart B, Class A ICES-003, Class A EN 55032, Class A EN 300 386 EN 301 489 EN 303 413 EN55035, EN 50663, EN 62479 BSMI
Environment			

Specifications are subject to change without notice.  
Contact our sales team for current configuration options.

S9511-20CT Front and Back Views



ACCESSORIES

- Compatible Transceiver Types  
25G SFP28 SR, 25G SFP28 LR, 25G SFP28 ER, 10G SFP+ SR, 10G SFP+ LR, 10G SFP+ ER, 10G SFP+ ZR, 1G SFP SX, 1G SFP LX, 1G SFP EX, 1G SFP ZX
- Compatible Timing Cable Types  
50 ohms SMA coaxial cable with 1/4-36UNS-2B connector for GNSS  
50 ohms SMB coaxial cable with 10-32UNF-2A connector for 1PPS and 10MHz  
Shield cable with RJ45 for ToD  
Shield cable with RJ48 for BITS

