ufiSpace

WE ARE UNIFYING
CLOUD & CARRIER NETWORKS

UfiSpace is the first to revolutionize the communication industry by moving internet traffic at speeds never thought possible. Now UfiSpace is spearheading the 5G network white-box solution platforms by providing major carrier network operators with the solutions necessary to deploy, maintain, futureproof and scale up their 5G networks. By partnering with the world's number one EMS manufacturer, UfiSpace is able to vertically integrate our supply chain from design to finish allowing us to deliver high quality and cost effective disaggregated NOS commodity hardware. Our white-box solutions have continued to transform the carrier networks by fostering new breakthroughs for 5G application services.
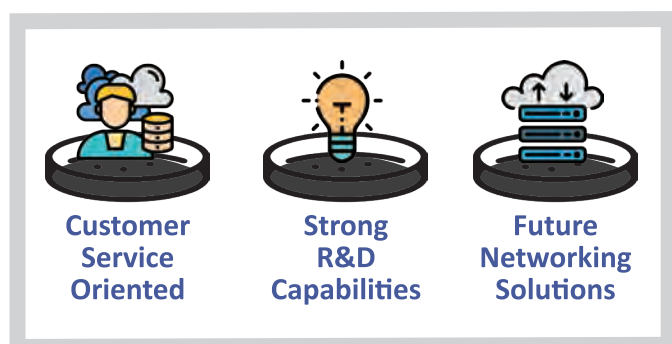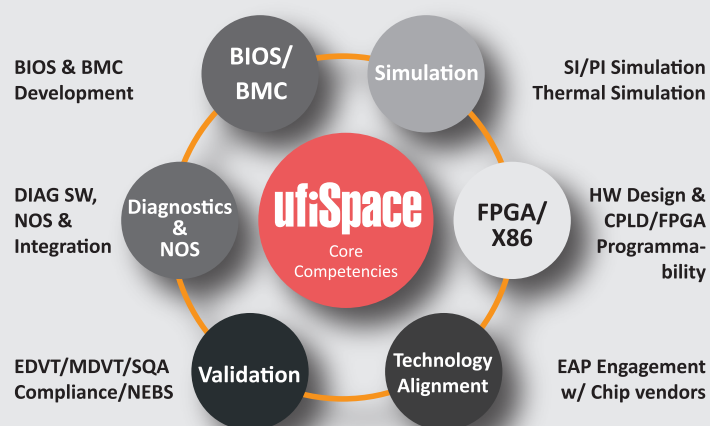
🌐 **Ufi Space Co., Ltd.** | **www.ufispace.com**

DEPLOYING THE INDUSTRY'S FIRST 400G CARRIER GRADE WHITE BOX

Based on our knowledge and years of experience designing and manufacturing enterprise and data center networking solutions, we had overcome the complexity and challenges when designing our carrier-grade white box routing system, not only from electrical, mechanical and thermal aspects but also from cost competitiveness and scalability that are required for the upcoming mass 5G network deployment. UfiSpace S9700 series is believed to be the first 400GE disaggregated white box routing system in the industry that has been field tested to carry 400G live traffic by the largest telco operator in the US.

Providing world class white box networking solutions requires close partnerships with the ecosystem. By partnering with the world's top EMS and disaggregated ecosystem vendors, our designing and manufacturing capabilities have ensured our customers are getting solutions that are exquisitely designed and manufactured to the world class performance and quality standards. UfiSpace is in the leading position to deliver the open disaggregated solutions for the advent of 5G technology evolution.

Customer Service Oriented

Strong R&D Capabilities

Future Networking Solutions

Carrier Grade Designing & Engineering Capabilities

BIOS & BMC Development

SI/PI Simulation
Thermal Simulation

BIOS/ BMC

Simulation

DIAG SW, NOS & Integration

Diagnostics & NOS

ufiSpace Core Competencies

FPGA/ X86

HW Design & CPLD/FPGA Programma-bility

EDVT/MDVT/SQA Compliance/NEBS

Validation

Technology Alignment

EAP Engagement w/ Chip vendors

Partnering with World-Wide No.1 EMS Mfg. & Eng. Services

Famous Tooling & Mold Manufacturing Capability

#1 Supplier of CE products

Millions of employees located in 90 different sites worldwide

No.1 EMS

#1 Supplier of Connector & Enclosure

Eng. & Compliance Test Labs

L1 ~ L11 Vertical Integration

#2 Supplier of PCB

NEXT GENERATION 5G NETWORKING SOLUTIONS

UfiSpace's end to end networking solutions offer carriers the efficiency, flexibility, and scalability needed to prepare their network infrastructure for the surging data demands of their customers as they head towards more 5G centric applications. So whether it is white box solutions for aggregating legacy and 5G data, network virtualization, or expanding data centers to meet increasing capacity demands, UfiSpace offers the best-of-breed solutions from access to core.

S9500-30XS CELL SITE GATEWAY ROUTER —
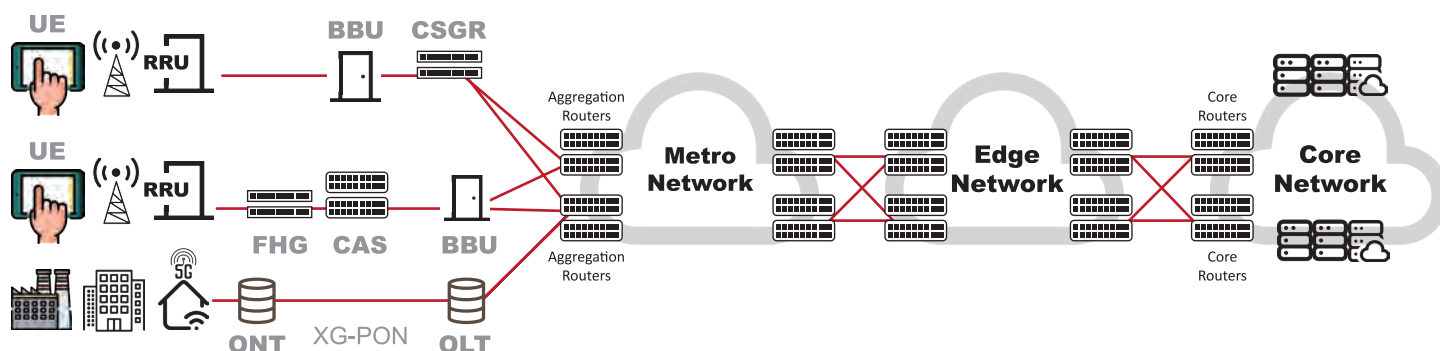
20 x 10GE SFP+
8 x 25GE SFP28
2 x 100GE QSFP28

- OCP Accepted and TIP Compliant.
- Over tens of thousands of units being used by Tier 1 Carriers.
- Compatible with carrier-certified NOS vendors.
- SyncE and Full 1588v2:Class C.
- Supports multiple timing source input: SMA-1PPS, SMA-10MHz, GPS-1PPS, GPS-10MHz, ToD-1PPS, PTP, SyncE, RJ45-ToD , GNSS-ToD and BITS.
- 100GE transceiver supports up to 40km (ER).
- 10GE transceiver supports up to 80km (ZR).
- 1 RU high-density 10/25/100 GE high speed Ethernet ports.
- NEBS Level-3 Compliance.
- Ideal for outdoor cabinet installations with operation temperature of-40°C to 65°C .

LEGACY MEETS 5G AT THE ACCESS & METRO NETWORKS

The UfiSpace S9500-30XS white box cell site gateway router combines speed, versatility, and power into a temperature hardened, streamlined 1RU router. Featuring high-density 10/25/100GE high-speed Ethernet ports, the S9500-30XS is supported by top-of-the-line Broadcom switching ASIC and Intel 1.5GHz quad-core CPU. This allows carrier-grade applications with up to 3GB of deep buffering, full IEEE 1588V2 and SyncE timing functions. Compliant with TP76200 GR-3108 Class2 OSP (NEBS Level 3), the S9500-30XS is specifically designed for outside plant cell site backhaul installations. Furthermore, it is designed with hot-swappable power supplies and fan modules for convenience and lowering the maintenance costs.

OCP accepted and TIP compliant, the S9500-30XS can support Open NOS applications for flexibility in management, orchestration and feature expansions. It is future-proofed for 5G not only with the necessary ports, it also supports a variety of timing circuitry inputs and outputs to accommodate the evolving timing requirements as we move towards 5G.

A DISAGGREGATED 400G NETWORK
FLEXIBILITY, SCALABILITY, AFFORDABILITY

UfiSpace's S9700 series is the industry's first live deployment of a disaggregated 400G carrier network. The S9700 series is composed of the S9700-53DX, S9700-23D and S9705-48D models, which are white box routers designed with deep buffers, route scale, and equipped with port densities suitable for carrier backbone networks. Optimized for 400Gbs interfaces that are essential for the 5G network, the S9700 series is critical for supporting the massive bandwidth demands that will come with 5G services.

Our disaggregated core/edge network solution breaks up a traditional chassis by implementing line (the S9700-53DX and S9700-23D) and fabric cards (the S9705-48D) as standalone white boxes each with their own power supplies, fans and controllers. This enables improved horizontal scale-out of small (16Tbs), medium (96Tbs) or large clusters (192Tbs), as system capacity will no longer be limited by the physical size of the chassis or the backplane's electrical conductance. With temperature-hardened, high port density, high-throughput, low packet latency, power & cooling redundancy, 1588V2 & SyncE synchronization functions, and self hardware management features, the S9700 series lowers infrastructure cost, improves flexibility and increases bandwidth capacity for edge/core 5G networks.

S9700 SERIES
CORE/EDGE ROUTING SYSTEM

- Meets Global Tier 1 Carrier Distributed Disaggregated Chassis (DDC) Specifications.
- Proven open network solution that facilitates 5G applications.
- Horizontal scaling from 4Tbs to 192Tbs.
- Multiple built-in redundancy mechanisms for hardware, software and platform.
- Open and simple operations using a common software stack with one centralized management system.
- Accelerated table lookup, packet buffering, and control memory with low latency high bandwidth memory.
- IEEE 1588v2 and Synchronous Ethernet.
- Support G.8273.3 T-TC (Class C), and G.8262.
- TP-76200 & TP-76450 compliance for Central Office/Telco environment, NEBS Level 3.
- 2RU height and 30" chassis depth especially designed for existing 19" cabinet rack-mount installation.
- Field replaceable, hot swappable power supplies and fans.

S9700-53DX ("Line Card" White Box)
40 x 100GE QSFP28
13 x 400GE QSFP-DD

S9700-23D ("Line Card" White Box)
10 x 400GE QSFP-DD
13 x 400GE QSFP-DD

S9705-48D ("Fabric" White Box)
48 x 400GE QSFP-DD

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Product Specifications