

M3000-14XC Fronthaul Multiplexer

The UfiSpace M3000-14XC is a high-performance, versatile open networking fronthaul device that is designed to expand coverage and maximizes the DU resources with flexibility as service providers improve their services. It enables telecoms and service providers to optimize private 5G network by utilizing DU resources efficiently and to streamline upgrading process when service providers are increasing its service capacity.

The M3000-14XC is future-proofed with a powerful quad-core processor, a programmable FPGA, 14 high speed interfaces, and full timing features supporting IEEE 1588V2 and SyncE. It is suitable for both indoor and outdoor cabinet deployments with redundant, hot-swappable components for convenience, increased availability, reliability and lower costs of maintenance.



KEY BENEFITS

- Extend service coverage and minimize DU resources needed by grouping RUs into one virtual cell.
- Future-proofed for 5G with ultra-low forwarding latency, high precision frequency and phase timing synchronizations.
- Suitable for open fronthaul application and compliant to O-RAN standard.

KEY FEATURES

- Jumbo frame size up to 9000 bytes
- Cascade up to 8 FHMs
- Various fiber length delay compensation
- Configurable data compression mode
- Configurable IQ data width
- Configurable U/C plane VLAN ID
- CLI/SNMP/NETCONF management protocol
- Supports full SyncE and IEEE 1588V2 (T-GM**, T-BC**, and T-TC)
- Integrated Stratum 3E OCXO with Class C timing support
- Rich timing interfaces: ToD, 1PPS, BITS, 10MHz, and GNSS**

SPECIFICATIONS

PHYSICAL

- 8 x 10/25G SFP28 ports to O-RU

- 4 x 10/25G SFP28 ports to O-DU*

- 2 x 100G QSFP28 (Reserved)

- 1 x USB port(for debug)

- 1 x RJ45 serial console port

- 2 x 100/1000M RJ45 management port

Processor ARM Cortex-A53 4-Core 64-bit @ 1.0GHz

FPGA Intel S10-TX(for O-RAN shared cell function)

Memory 4GB DDR4

Timing 1 x GNSS input SMA(**)

Interfaces 1 x 1PPS input/output SMB

1 x 10MHz input/output SMB

1 x BITS input/output RJ48

1 x ToD input/output RJ45

Timing Capabilities Stratum 3E OCXO

ITU-T Synchronous Ethernet (SyncE)

IEEE 1588v2 T-TX

(G.8275.1, G.8275.2 PTS/APTS, T-BC, T-GM, and G.8264 ESMC will be available with future premium versions)

Chassis 1 RU, 440 x 250 x 43.5 mm or

(WxDxH) 17.32" x 9.84" x 1.71"

Net weight: 4.18 kg. or 9.21 lbs.

Redundancy Hot swappable, 1+1 redundant PSUs

FAN 4 Fixed Fans

*Only port 8 is available to use for now, port 9-11 are reserved

**To be available with future premium versions

ENVIRONMENTAL

Power Supply AC input: 100 ~ 240V, 3A

DC input: -36 ~ -75V, 8A

Max power: 188 Watts

Max. Operating Specs.

Operating temperature: -40°C to 70°C (-40°F to 158°F)

Operating humidity: 5% to 95% (RH), noncondensing

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

Coverage

One FHM supports up to 8 RUs. Cascading can be used to extend coverage.

REGULATORY COMPLIANCE

Safety

UL 62368-1

IEC62368-1

EMC

FCC Part 15, Subpart B, Class A

Specifications are subject to change without notice.

M3000-14XC

Telecom
Networking
Solutions

M3000-14XC Front and Back Views



SUPPORTED ACCESSORIES

Transceivers

25G SFP28 SR, 25G SFP28 LR, 25G SFP28 ER, 10G SFP+ SR, 10G SFP+ LR,

10G SFP+ ER

Cable Types

SMA coaxial cable with 1/4-36UNS-2B connector for GNSS

SMB coaxial cable with 10-32UNF-2A connector for 1PPS and 10MHz

Shield cable with RJ45 for ToD

Shield cable with RJ48 for BITS

Power Supply Types

PSU-201-DISB, 200W DC PSU, intake air flow

PSU-201-AISB, 200W AC PSU, intake air flow

