

FSP 3000 TeraFlex™

Ultra-compact terminal for hyperscale connectivity over any infrastructure

The phenomenal growth in data traffic combined with increasing cost pressures is creating an urgent need for more capacity and speed in data center interconnect (DCI) and carrier networks without significant increases in spend or hardware sprawl. ICPs, CNPs and CSPs need to rapidly scale their networks while retaining simplicity and meeting evolving density and power requirements. Our TeraFlex™ meets these exacting demands and takes scalability to a new level.

Our TeraFlex™ is a 1RU terminal that enables channels of up to 1.2Tbit/s and a total capacity of 7.2Tbit/s. Its ultra-compact footprint and open API design offer best-in-class density and interoperability. With its advanced capabilities, it takes flexibility to a whole new level. The FSP 3000 TeraFlex™ optimizes all optical paths over any distance, no matter which filter technology is used. It achieves this through fractional QAM modulation, which switches between lower and higher schemes for maximum spectral efficiency, significantly boosting capacity or extending the reach of installed legacy infrastructure without an OLS overhaul. TeraFlex™ is a scalable and flexible solution, supporting 100Gbit/s and 400Gbit/s services. What's more, 10GbE services are also supported via our pluggable MicroMux™ QSFP. This unique flexibility enables the smoothest service upgrade from 10GbE to 400GbE and gives service providers and data center operators the configuration flexibility to address a wide range of applications with minimum inventory sprawl and market-leading power efficiency. In addition, our TeraFlex™ delivers real-time streaming telemetry, a prerequisite for big-data-based network management.



Your benefits

- ✔ **Ultra-flexible modulation**
Boost capacity and reach over any network infrastructure with fractional QAM and continuous tunable baud rate
- ✔ **Open and modular design**
All system modules are externally accessible and field replaceable (non-service affecting)
- ✔ **Ultimate 100G and 400G client density**
36x 100GbE client ports, 9x 400GbE client ports or a mix of both served by a 1RU chassis
- ✔ **Terascale line interfaces**
Single-port 800Gbit/s line interfaces and channel data rates up to 1.2Tbit/s based on dual core DSP technology
- ✔ **Programmability through open APIs**
Direct integration into data center and SDN environments with open, YANG-based interfaces
- ✔ **From 10G to 400G services**
10Gbit/s support via our innovative MicroMux™ pluggable QSFP28

High-level technical specifications

General information

- 1RU chassis; 600mm rack and closed cabinet installation
- Up to 1.2Tbit/s per channel; 7.2Tbit/s total capacity
- Hot-swappable and field replaceable modules
- 3 slots for line cards

Client interface options

- 400GbE: DR4, FR4, LR4, SR8, AOC and third-party
- 100GbE: LR4, CWDM4, ER4, SR4, AOC, DAC and third-party
- 10GbE via MicroMux™ pluggable QSFP28
- FlexE support

Sleds variants

- 1200G dual channel sled: 12x or 8x 100GbE/OTU4
- 1200G dual channel sled: 3x 400GbE
- 800G CoreChannel sled: 8x 100GbE/OTU4, 2x 400GbE
- Submarine mode

Management

- Open interfaces
- YANG-model based
- Support for CLI, REST, NETCONF, SNMP and WebGUI
- Streaming telemetry (gRPC)
- Secure software and configuration management

Automation and simplicity

- Zero-touch provisioning
- Script-based commissioning
- Integration into SDN environments
- Simplified local provisioning options

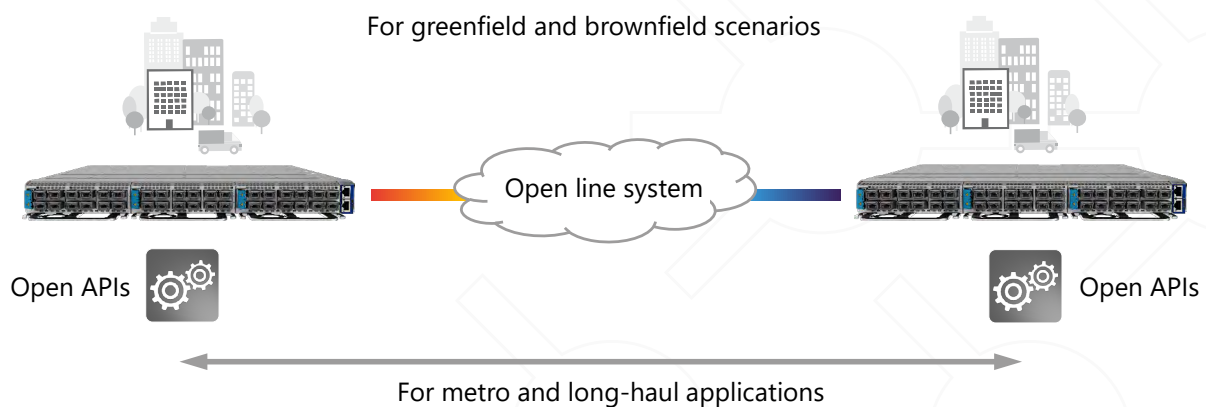
Best-in-class ecodeign

- Highly-efficient design with market leading power efficiency
- <0.16W per Gbit/s
- 80+ platinum PSUs
- 1+1 hot-swappable PSUs (105-230VAC, HVDC, +/-48VDC)

Applications in your network

Boost network capacity over any infrastructure

- Data center interconnect with up to 1.2Tbit/s per channel
- Maximize capacity or extend the reach of installed legacy infrastructure (fixed grid or flexgrid) without optical line system upgrade
- Submarine network applications with maximum bandwidth per channel



For more information please visit us at www.adva.com
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Product specifications are subject to change without notice or obligation.

