

## 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 every 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 DCI applications with minimum inventory sprawl and market-leading power efficiency. Data security is also guaranteed. Our ConnectGuard™ technology provides robust low-latency encryption and eliminates the need for standalone security equipment. 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
- ✔ **Highest data security**  
Tamperproof design, ADVA ConnectGuard™ encryption technology and security management software
- ✔ **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

### Data protection

- ADVA ConnectGuard™ encryption technology
- Strict separation of network and security domains
- Compliant with latest industry standards

### 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

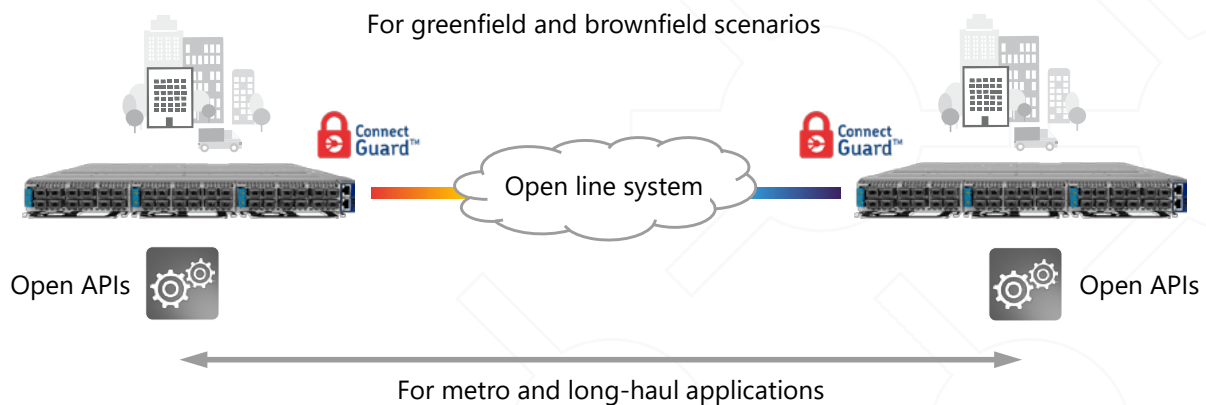
### Best-in-class ecodeign

- 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 OLS upgrade
- Submarine network applications with maximum bandwidth per channel



For more information please visit us at [www.adva.com](http://www.adva.com)  
© 02 / 2020 ADVA Optical Networking. All rights reserved.

Product specifications are subject to change without notice or obligation.

