Total Acess 5000 Series

5000 Chassis (ANSI)

Fiber Access, Aggregation, and Transport Platform

FTTH	10 Gbps	Scalable	Temperature Hardened	Open Architecture

Benefits

- Native IP/Ethernet Core
- Multiservice Support: GPON, XGS-PON, Combo PON, Active Ethernet, Carrier Ethernet, and Triple-Play Services
- Scales up to 21,000 Subscribers Per Chassis
- Non-Blocking, Multi-Terabit Switching
- Open SDN Management via Mosaic Cloud Platform Plugin and Traditional EMS
- Environmentally Hardened for Cabinet Deployments

Overview

The Adtran Total Access 5000 (TA5000) Series is the industry's market-leading 10G Fiber Access and Aggregation platform. It simplifies high-capacity broadband services delivery regardless of density, topology, application, or technology need. The Total Access 5000 platform is part of the Adtran Total Access 5000 portfolio of products, with over 450 customers and 60,000 nodes deployed across 68 countries.

With a pure IP/Ethernet core, the Total Access 5000 fiber access platform supports more than seven fiber access technologies and easily scales to support even the most bandwidth intensive applications in a compact 9RU form factor. In addition, the Total Access 5000 supports highly scalable, integrated aggregation utilizing multiple 10GE, 40GE, and 100GE interfaces.

Environmentally hardened, the Total Access 5000 can be deployed in central exchanges or remote street cabinets to expand multi-gigabit services to urban, suburban, and rural areas.

The Total Access 5000 platform includes a highly scalable, multi-Terabit non-blocking architecture that is designed to evolve with the network. This provides flexible fiber options in a truly diverse network application driven by service provider needs.

The Total Access 5000 supports GPON, XGS-PON, Combo PON (GPON+XGS-PON), Point-to-Point Active Ethernet modules, and dedicated Carrier Ethernet services among others. This enables delivery of multi-gigabit residential, business, and mobile backhaul services from the same platform. The Total Access 5000 supports up to 21 temperature-hardened access module slots, with integrated Nx40GE/100GE support to each slot providing a comprehensive solution to launch and expand full-fiber networks.

The Total Access 5000 Series can be managed via the Adtran Mosaic Cloud Platform, our SDN control and orchestration solution, or the Advanced Operational Environment (AOE), a traditional element management system.

The Total Access 5000 Series works in concert with Adtran's suite of residential CPE which includes our latest Wi-Fi 5/6 Service Delivery Gateways, Fiber-to-the-Home Gateways, Mesh Wi-Fi, and a comprehensive portfolio of indoor and outdoor XGS-PON and GPON ONTs. The Total Access 5000 is designed for deployment in 19-inch and 23-inch relay racks.

5000 CHASSIS (ANSI)

Product Specifications

Interfaces

- Uplink (Switch Module Dependent)
  - SM40: 4x1/2.5/10GE
  - SM200: 2x100GE, 2x40GE (breakout mode enabled)
- Management (System Controller Module)
  - Craft Serial Port: DB-9 Connector with RS-232 Interfaces
  - Ethernet Port: 10/100Base-T

Applications and Services

- 10G FTTH for Gigabit and Multi-gigabit Broadband
- Optical Networking Edge (ONE) for Premium (SLA) 10G Services, Aggregation, and Transport
- Carrier Ethernet Services Over Any Medium

Physical

- Dimensions: 15.75 in. x 21.5 in. x 12.0 in. (400 mm x 546 mm x 305 mm) (H x W x D)
- Weight: 9.5 kg
- Nine Rack-Mountable Units (9RU)

Management

- Mosaic Software Suite
- Advanced Operational Environment (AOE)
- Remote Management Through SNMP, CLI, and Web-Service APIs (HTTPS)
- Ethernet Interface on SCM for Web and Telnet/SSH Access (in-band or out-of-band)
- Craft and Ethernet Interfaces on SCM

Environmental

- Operating Temperature: -40° F to +149° F (-40° C to +65° C)
- Storage Temperature: 40° F to +185° F (-40° C to +85° C-)
- Relative Humidity: Up to 95%, Non-Condensing

Electrical

- Nominal Powering Voltage: -48 VDC
- Power Terminal: Redundant A and B Power Feeds

Regulatory Standards

- EN 60950-1
- AS/NZ 60950
- IEC 60950-1
- EN 300 386
- RoHS

Ordering Information

Equipment	Part No.
Total Access 5000 Chassis Kit (Includes Chassis, SCM, Redundant SM40s, High-Flow Fan and Fiber Manager)	41875K4011F2HF
Total Access 5000 Chassis Kit (Includes Chassis, SCM, Redundant SM200s, High-Flow Fan and Fiber Manager)	41875K20011F1HF
Common Modules	
Total Access 5000 SCM	1187011F3
Total Access 5000 SM40 4x10GE (SFP+)	1187041F1
Total Access 5000 SM200 2x100GE (QSFP28) + 2x40GE (QSFP+)	1187045F1
Spares & Accessories	
Total Access 5000 High-Flow Fan Module	1187080G3
Total Access 5000 Fiber Manager	1187940G1
Total Access 5000 Side-Mount 19-inch Brackets	1187070F1
9500 Blank Panel for PIM/LIM	17595PMF1BL
Front-to-Back Fan Module	11971012F1

Adtran

641875Kxx11FxHF-8B

ADTRAN Certified Supplier
ISO 9001
ISO 14001
TL 9000

TL 9000
TELECOMMUNICATIONS
ISO 9000
QUALITY
ISO 14001
ENVIRONMENT

TL9000
TL 19.1270