Total Access 1100F

Outside Plant Ethernet Aggregation Unit

Product Features

- Sealed GR-487 compliant unit
- Dual Optical or Copper GigE Network feeds via SFP Modules
- Networks with Total Access 1148 or Total Access 1248 DSLAM for fiber deployment
- 6 Gbps switching capacity
- Easily configurable for both electrical and optical expansion interfaces
- Priority Queuing (802.1p)
- 801.q-in-q VLAN tagging (802.1ad)
- Integrated Security Support (blocks direct port-to-port traffic)
- Replication of Multicast Traffic
- Compact size
- Line power from CO using 1 to 4 powering pairs – requires no AC or battery backup
- Line power can extend to 60,000 feet
- Local power –48 VDC and 110 VAC options
- Remotely provisioned and managed through TL1, Telnet, SNMP, or Total Access EMS; saves truck dispatch cost
- Passively cooled, no fan or filter required
- Industry-leading 5-year warranty

The key to customer retention and continued revenue growth is to offer new, higher bandwidth services to your customers. The Total Access® 1100F offers higher bandwidth delivery and cost improvement for next-generation services.

The Total Access 1100F is an Outside Plant hardened Ethernet aggregation unit. It serves up to four Total Access 1148 OSP DSLAMs or Total Access 1248 Mini-DSLAMs, logically combining them into a single, high-bandwidth Ethernet/IP DSLAM. The Total Access 1100F provides the high bandwidth uplinks, Ethernet aggregation functions, fiber and copper system inter-connects, and video enabling functions like Internet Group Management Protocol (IGMP) proxy for multicast replication. Additionally, it provides an array of security features needed to enable and protect triple play service delivery through Total Access 1148 or Totla Access 1248 DSLAMs. Carriers can deploy Total Access 1148 or Total Access 1248 IMA-fed DSLAMs today and then migrate to triple play service delivery with the simple addition of the Total Access 1100F.

The Total Access 1100F is enclosed in an environmentally sealed housing that is fully OSP compliant. A single unit will support up to four Total Access 1148 or Total Access 1248 DSLAMs for a total subscriber density of up to 192 ports. Dual Gigabit Ethernet (GigE) network uplinks are provided to interface the core switch/router. Two hardware options exist for the four subtending connections from the Total Access 1100F: one with SFP slots that allows for fiber expansion, copper expansion, or both, and another option that has four fixed copper expansion ports. Access technologies supported include: ADSL, ADSL2, ADSL2+, and VDSL2, through appropriate Total Access 1148 and Total Access 1248 DSLAMs.
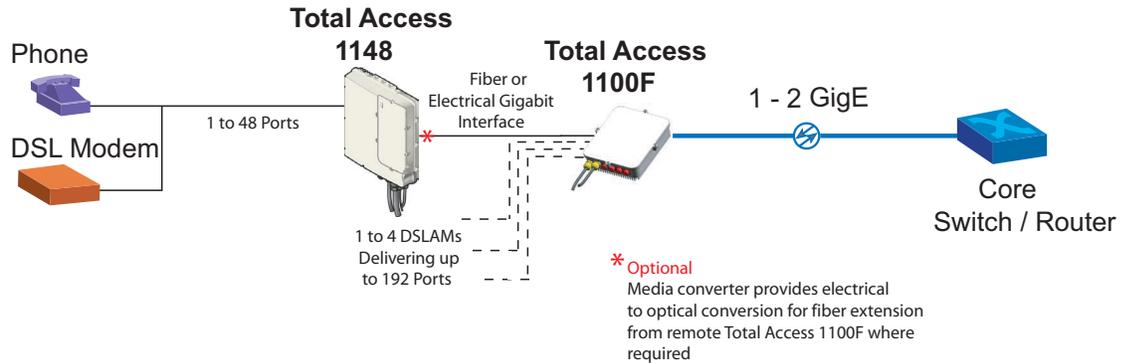
The Total Access 1100F and associated Total Access 1148 and Total Access 1248 DSLAMs are managed as a single unit either through a local interface on the Total Access 1100F or remotely through Telnet or SNMP. The OSP DSLAM is fully supported by the Total Access EMS, with remote management communication accomplished through SNMP. The ADTRAN® Total Access EMS provides comprehensive management for its complete DSLAM product line.

Total Access® System

Smart Solutions for a Connected World.

ADTRAN®

Total Access® 1100F

Total Access® System

Outside Plant Ethernet Aggregation Unit

Phone
DSL Modem

Total Access 1148

1 to 48 Ports

Fiber or
Electrical Gigabit
Interface

Total Access 1100F

1 - 2 GigE

Core
Switch / Router

1 to 4 DSLAMs
Delivering up
to 192 Ports

* Optional
Media converter provides electrical
to optical conversion for fiber extension
from remote Total Access 1100F where
required

Product Specifications

Interfaces

Network
- Two modular optical GigE network feeds (SFP IEEE 802.3 compliant)

Subscriber
- Four SFP interfaces for electrical or optical extensions
- Four fixed electrical interfaces

Mechanical
- **Dimensions:** 11 in. H x 9.5 in. W x 2.5 in. D
- **Weight**: 15 lbs
- **OSP Mounting**: Pole, pedestal, cross-box, remote terminal
- **Indoor Mounting**: SMB and MDU applications

Management
- **Local**: Local craft interface via VT100 terminal
- **Remote**: TL1, Telnet, SNMP, Total Access EMS

Power
- Span powered
- Local 110 VAC powered
- Local -48 VDC powered

Power
- −42 VDC to −56 VDC (1.5 Amp internal fuses)
- 110 VAC (3 Amp internal fuse)
- **Line Powered**: 1 to 4 line-powered pairs

Electrical
- **System Fusing**: Local DC - 5 Amp internal fuses, AC − 3.0 Amp internal fuse
- **Line Powered**: 1 to 4 line-powered pairs

Regulatory Standards
- GR-487-CORE, Issue 2
- NEBS Level 3
- GR-1089-CORE, Issue 3
- GR-63-CORE, Issue 2
- NRTL Safety Listed
- FCC Part 15

Environmental
- **Operating Temperature:** −40°C to +70°C
- **Storage Temperature**: −40°C to +85°C
- **Relative Humidity**: 95 percent, noncondensing

Protocol Specifications
- IGMP proxy v2
- IEEE 802.1P "p" bit priority queuing
- RFC 2684 bridged encapsulation
- MAC address filtering and limiting
- PPPoE intermediate agent
- Proxy ARP
- DHCP proxy and option 82 (RFC 3046)

Ordering Information

Equipment	Part #
Total Access 1100F, -48 VDC Powered, with SFP Expansion Ports	1179760L1
Total Access 1100F, Line Powered, with SFP Expansion Ports	1179760L2
Total Access 1100F, 110 VAC Powered, with SFP Expansion Ports	1179760L3
Total Access 1100F, -48 VDC Powered, with Electrical Expansion Ports	1179762L1
Total Access 1100F, Line Powered, with Electrical Expansion Ports	1179762L2
Total Access 1100F, 110 VAC Powered, with Electrical Expansion Ports	1179762L3
E/O OSP Media Converter, -48 VDC Powered	1179761L1
E/O OSP Media Converter, Line Powered	1179761L2
E/O OSP Media Converter, AC Powered	1179761L3
Total Access 1148 Client with IP Code, -48 VDC Powered	1179740L4
Total Access 1148 Client with IP Code, Line Powered	1179740L5
Total Access 1148 Client with IP Code, 110 VAC Powered	1179740L6
Total Access 1248 Client with IP Code	1179641L6

nsai
TL 9000
TELECOMMUNICATIONS
ISO 9001:2000
QUALITY
ISO 14001
ENVIRONMENT

ADTRAN is an ISO 9001, ISO 14001
and a TL 9000 certified supplier.