

ADTRAN 4212912L1

ADTRAN Total Access 912 (4212912L1) User Manual

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the ADTRAN Total Access 912 (Model 4212912L1) IP Router. The Total Access 912 is designed to provide integrated access for voice and data services, featuring a T1 network interface, multiple FXS ports, and robust IP routing capabilities.

2. PRODUCT OVERVIEW

The ADTRAN Total Access 912 is a versatile IP router offering a comprehensive set of features for converged voice and data networks. Key functionalities include:

- **T1 Network Interface:** For primary rate digital access.
- **12 FXS Ports:** Supporting analog telephone connections.
- **DSX-1 Port:** For T1 circuit connectivity.
- **10/100 BaseT Ethernet:** For local area network connectivity.
- **IP Router:** Featuring OSPF, BGP, RIP V1/V2, Static routes, and 802.1d Bridging.
- **VoIP Support:** Includes G.168 Echo Cancellation and support for G.711 and G.729a CODECs, compatible with SIP applications.
- **Security Features:** Integrated stateful inspection firewall.
- **Management:** Command Line Interface (CLI), SNMP, Telnet, Craft/Console port, TFTP support.



Figure 1: Front view of the ADTRAN Total Access 912 (4212912L1) IP Router. The device is a rectangular unit with a light gray top casing featuring ventilation slots. A dark blue band runs across the front, below which are several indicator lights. The ADTRAN logo is visible on the left side of the blue band.

3. SETUP

3.1 Physical Installation

1. **Placement:** Position the router in a well-ventilated area, away from direct sunlight and heat sources. Ensure adequate space for cable connections.
2. **Power Connection:** Connect the provided power adapter to the router's power input and then to a suitable electrical outlet.
3. **T1 Network Connection:** Connect the T1 line from your service provider to the designated T1 network interface port on the router.
4. **Ethernet Connection:** Connect your local network devices (e.g., switches, computers) to the 10/100 BaseT Ethernet port(s) using standard Ethernet cables.
5. **FXS Port Connections:** Connect analog telephones or fax machines to the FXS ports as required.
6. **Console Connection (Optional):** For initial configuration or troubleshooting, connect a serial cable from your computer's serial port to the router's Craft/Console port.

3.2 Initial Configuration

Upon powering on, the router will perform a self-test. Initial configuration typically involves accessing the device via the console port or a default IP address on the Ethernet interface. Refer to the ADTRAN documentation for specific default IP addresses and login credentials.

- Access the Command Line Interface (CLI) via the console port or Telnet/SSH.
- Configure basic network parameters such as IP addresses, subnet masks, and default gateways.
- Set up T1 interface parameters according to your service provider's specifications.
- Configure VoIP settings, including SIP server details and FXS port assignments.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

Once configured, the Total Access 912 operates autonomously. Monitor the front panel LED indicators for status information:

- **Power LED:** Indicates power status.
- **System Status LED:** Provides general operational status.
- **T1/WAN LEDs:** Indicate T1 line activity and status.
- **Ethernet Link/Activity LEDs:** Show link status and data transmission on Ethernet ports.
- **FXS Port LEDs:** Indicate the status of connected analog devices.

4.2 Advanced Features

The router supports various advanced configurations:

- **Routing Protocols:** Configure OSPF, BGP, or RIP for dynamic routing within your network.
- **VoIP Services:** Manage SIP trunking, dial plans, and CODEC preferences for voice calls.
- **Firewall Rules:** Implement security policies using the stateful inspection firewall to protect your

network.

- **Quality of Service (QoS):** Prioritize voice and critical data traffic to ensure optimal performance.

5. MAINTENANCE

5.1 Firmware Updates

Regularly check the ADTRAN support website for the latest firmware versions. Firmware updates can provide new features, performance enhancements, and security patches. Follow the manufacturer's instructions carefully when performing updates to avoid service interruption.

5.2 Configuration Backup

Periodically back up your router's configuration to an external storage device. This allows for quick restoration of settings in case of a device failure or accidental configuration changes.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with the ADTRAN Total Access 912.

Issue	Possible Cause	Solution
No Power	Power cable disconnected, power outlet fault.	Verify power cable connection. Test power outlet with another device.
No T1 Link	T1 cable issue, service provider problem, incorrect configuration.	Check T1 cable. Contact service provider. Verify T1 interface configuration.
No Ethernet Connectivity	Ethernet cable fault, incorrect IP settings, port disabled.	Check Ethernet cable. Verify device IP configuration. Ensure router port is enabled.
Voice Call Issues	Incorrect VoIP configuration, network congestion, FXS port fault.	Review SIP and FXS port configurations. Check network bandwidth. Test with another analog phone.
Cannot Access Router Management	Incorrect IP address, firewall blocking access, wrong credentials.	Verify management IP. Check local firewall settings. Use correct username/password.

7. SPECIFICATIONS

Feature	Detail
Brand	ADTRAN
Model Number	4212912L1
Connectivity Technology	Ethernet
WAN Interface	T1 network interface
Voice Ports	12 FXS ports

Feature	Detail
Digital Cross-Connect	DSX-1 port
LAN Port Bandwidth	10/100 megabits per second
VoIP Codecs	G.711, G.729a
Echo Cancellation	G.168 Echo Cancellation
Routing Protocols	OSPF, BGP, RIP V1 and V2, Static routes
Bridging	802.1d Bridging (all protocols)
WAN Protocols	Frame Relay, PPP
Security	Stateful inspection firewall
Management	CLI, SNMP, Telnet, Craft/Console port, TFTP support
UPC	376864074571

8. SAFETY INFORMATION

- Ensure the device is installed in a dry, well-ventilated environment.
- Do not block ventilation openings.
- Use only the power adapter supplied with the device.
- Avoid exposing the device to extreme temperatures or humidity.
- Do not attempt to open or repair the device yourself. Refer to qualified service personnel.

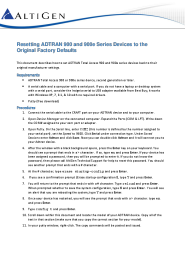
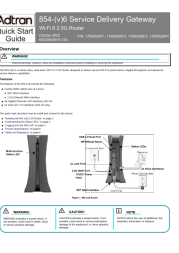
9. WARRANTY AND SUPPORT

Warranty information for the ADTRAN Total Access 912 (4212912L1) is typically provided at the point of purchase or included with the product packaging. For detailed warranty terms and conditions, please refer to the documentation accompanying your device or visit the official ADTRAN website.

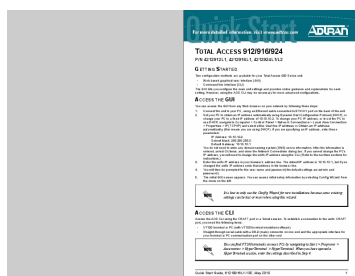
For technical support, product documentation, and software downloads, please visit the ADTRAN support portal or contact ADTRAN customer service directly. Ensure you have your product model number (4212912L1) and any relevant purchase details available when seeking support.

Related Documents - 4212912L1

	ADTRAN Total Access 600 Series System Manual Comprehensive system manual for ADTRAN Total Access 600 Series Integrated Access Devices (IADs), covering installation, operation, maintenance, compliance, and support for models like 600R, 604, 608, 612, 616, and 624.
---	---

	ADTRAN Total Access 900 Series: Guía de Inicio Rápido Aprenda a configurar y acceder a su unidad ADTRAN Total Access 900 Series a través de GUI y CLI. Esta guía cubre la configuración de IP, conexiones y comandos básicos.
	Resetting ADTRAN 900 and 900e Series Devices to Factory Defaults A guide on how to reset ADTRAN Total Access 900 and 900e series devices to their original factory default settings, including requirements and step-by-step procedures.
	NetVanta 3140 Quick Start Guide Quick start guide for the ADTRAN NetVanta 3140 Fixed Port Router, covering initial setup, GUI and CLI access, configuration, and LED indicators.
	ADTRAN 834-5 Service Delivery Gateway Quick Start Guide Quick start guide for the ADTRAN 834-5 Service Delivery Gateway, a Wi-Fi 5 Gigabit Router. Includes installation, features, specifications, and safety information.
	Adtran 854-(v)6 Wi-Fi 6 2.5G Router: Quick Start Guide This guide provides quick start instructions for installing and connecting the Adtran 854-(v)6 Wi-Fi 6 2.5G Router, covering setup, status LEDs, product specifications, and safety information.

Documents - ADTRAN – 4212912L1



[\[pdf\]](#) Quick Start Guide Guide

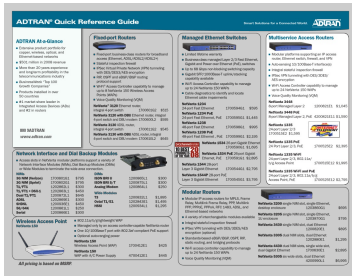
61210916L1 13E fm lkeys TOTAL ACCESS 912 916 924 CNET Content Solutions Quick Start Guide

May 2010 1 P N 4212912L1 4212916L1 4212924L1 L2 ed GETTING STARTED AA9017EF 525E 4A3F

ADC8 7E7A2A1898FF media howard QUICK START GUID

TOTAL ACCESS 912/916/924 P/N **4212912L1**, 4212916L1, 4212924L1/L2 GETTING STARTED Two configuration methods are available for your Total Access 900 Series unit: Web-based graphical user interface GUI Command line interface CLI The GUI lets you configure the main unit settings and provides online...

lang:en score:38 filesize: 399.53 K page_count: 4 document date: 2010-04-22

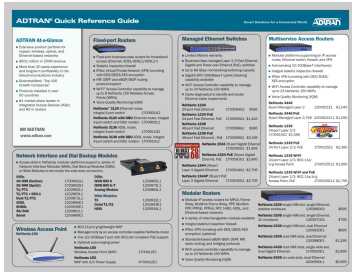


[\[pdf\]](#) Reference Guide Guide

ADTRAN Quick Reference Guide Anixter Adtran Firewall Support find your support Ref corpapps anixter
DocLib1 MTNFQJGE \$file |||

ADTRAN Quick Reference Guide ADTRAN At-a-Glance n Extensive product portfolio
for copper, wireless, ... APs Total Access 904 4 FXS 4212904L1 Total Access 908 8
FXS 4212908L1 Total Access 912 12 FXS **4212912L1** Total Access 916 16 FXS
4212916L1 Total Access 924 24 FXS 4212924L1 Total Access 924 ...

lang:en score:38 filesize: 1.19 M page_count: 2 document date: 2009-04-21

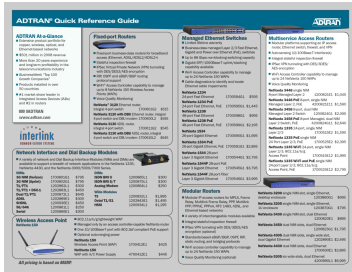


[\[pdf\]](#) Reference Guide Guide

Synnex Quick Reference Guide portal adtran 80 pub Library Channel Programs Reseller Partner Program

ADTRAN Quick Reference Guide Smart Solutions for a Connected World. ADTRAN
At-a-Glance n Extensive ... APs Total Access 904 4 FXS 4212904L1 Total Access
908 8 FXS 4212908L1 Total Access 912 12 FXS **4212912L1** Total Access 916 16
FXS 4212916L1 Total Access 924 24 FXS 4212924L1 Total Access 924 ...

lang:en score:37 filesize: 1.2 M page_count: 2 document date: 2009-04-28



[\[pdf\]](#) Reference Guide Guide

ADTRAN Network Router 3120 User Guide 587860b0 e28f 477a 8e88 3c45a5c0f2f2 archive.org
manualsonline id

ADTRAN Quick Reference Guide ADTRAN At-a-Glance n Extensive product portfolio for copper, wireless, ... Access 904 4 FXS 4212904L1 1,025 Total Access 908 8 FXS 4212908L1 1,150 Total Access 912 12 FXS **4212912L1** 1,450 Total Access 916 16 FXS 4212916L1 1,575 Total Access 924 24 FXS 4212924L1 1,825...

lang:en score:37 filesize: 1.09 M page count: 2 document date: 2009-08-11



[\[pdf\]](#) Datasheet Warranty

TA 904 Data Sheets Adtran TA900 900e pulsesupply images adtran |||

Total Access 900/900e Series Product Features Seamless voice and data integration over VoIP-based ... SL2 4212904L4 Total Access 908 4212908L1 Total Access 908 ADSL2 4212908L4 Total Access 912 **4212912L1** Total Access 916 4212916L1 Total Access 924 4212924L1 Total Access 924, 16 FXS 8 FX...

lang:en score:24 filesize: 692.08 K page_count: 4 document date: 2019-09-24

IP Business Gateways

ADIRAN

Quick Reference

Product Description

Product #

Total Access 900 Series

- Single T1/E1 WAN Port
- Single 10/100 Ethernet

- 8 to 16 LAN ports
- Supports DHCP and NAT

Total Access 900A-100

4710001

Total Access 900A-100S

4710001S

Total Access 900A-100S-100

4710001S-100

Total Access 900A-100S-100-100

4710001S-100-100

Total Access 900A-100S-100-100-100

4710001S-100-100-100

Total Access 900A-100S-100-100-100-100

4710001S-100-100-100-100

Total Access 900S Series Gen 3

- Multiple Ethernet Ports (Supports 10/100 and Gigabit Ethernet)
- Full Feature Set

- 8 to 16 LAN Ports
- Supports DHCP, NAT, and Port Forwarding

Total Access 900S

4710002

Total Access 900S-100

4710002-100

Total Access 900S-100-100

4710002-100

Total Access 900S-100-100-100

4710002-100-100

Total Access 900S-100-100-100-100

4710002-100-100-100

Total Access 900S-100-100-100-100-100

4710002-100-100-100-100

Total Access 900S-100-100-100-100-100-100

4710002-100-100-100-100-100

NetVanta 6250

- 4x 10/100 Ethernet Ports
- 4x 10/100 Ethernet Ports
- 4x 10/100 Ethernet Ports
- 4x 10/100 Ethernet Ports

- 10/100 Ethernet Switching
- Up to 16 LAN Ports
- Supports DHCP, NAT, and Port Forwarding

NetVanta 6250-100

4710003

NetVanta 6250-100-100

4710003-100

NetVanta 6250-100-100-100

4710003-100-100

NetVanta 6250-100-100-100-100

4710003-100-100-100

NetVanta 6250-100-100-100-100-100

4710003-100-100-100-100

NetVanta 6250-100-100-100-100-100-100

4710003-100-100-100-100-100

NetVanta 6250-100-100-100-100-100-100-100

4710003-100-100-100-100-100-100

[illegible]

Delivering PRI and Analog over Hosted VoIP



For support of legacy phones connected using PRI over analog applications such as medical and government, based on CPE can still be an option. The Trunkless SIP™ solution is ideal for providing the PRI ports to meet the primary need to support a customer's existing analog phones, the switches, alarm phones and routers. The integrated PRI gateway and advanced quality of service features ensure the Trunkless SIP™ solution delivers voice quality that is on par with traditional PRI. The Trunkless SIP™ solution also supports the Trunkless SIP™ SIP trunking for VoIP applications, which can be used to connect to a Trunkless SIP™ SIP trunking for VoIP applications, which can be used to connect to a Trunkless SIP™ SIP trunking for VoIP applications.

The Trunkless SIP™ solution also supports the Trunkless SIP™ SIP trunking for VoIP applications, which can be used to connect to a Trunkless SIP™ SIP trunking for VoIP applications, which can be used to connect to a Trunkless SIP™ SIP trunking for VoIP applications.

Model	ADIR-6000 Part Number
Trunkless SIP™ 6000	ADIR-6000-1
Trunkless SIP™ 6000	ADIR-6000-2
Trunkless SIP™ 6000	ADIR-6000-3
Trunkless SIP™ 6000	ADIR-6000-4
Trunkless SIP™ 6000	ADIR-6000-5
Trunkless SIP™ 6000	ADIR-6000-6
Trunkless SIP™ 6000	ADIR-6000-7

SOLUTION FEATURES

- Seamless voice and data integration over VoIP-based network architectures
- Compatible with various routing and networked call agents
- Up to 34 TDM interfaces
- ISDN for PBX connectivity
- Dynamic bandwidth allocation affects peak efficiency
- Integrated fault management for data integration and network security (IPSec VPN, TLS, or SSL) as well as
- Statistical measures forward for network security
- Quality of Service (QoS) for delay sensitive traffic via transport
- Forward Congestion and congestion
- Single-lined network architecture
- Forward Congestion and congestion
- Industry leading per-line capacity

ADIRnet

[\[pdf\]](#) Price List

Barnes Devlynne Afk3D132ibNjyZexQipTlo6dCDn 8 lug 2022 — 1 ADTRAN IAD PROSERVICES 1100 PROCRBAS PROCARE BASIC 628 00 \$ 10% 465 20 E 2 Afk3D132ibNjyZexQipTlo6dCDnNOQIP adtran media amasty amfile attach ||| ALJP2022 RFP ALJP Price Listing Top 40 on top Proposed Product Line Proposing Company Name: Propos ... 205290L9#B 4205290L15 4205290L16 4205290L18 4205291L6 4212904L1 4212904L1#GW 4212908L1 4212908L1#GW **4212912L1** 4212924L1 4213600L1#ATM 4213600L1#TDM 4213612L1#ATM 4213612L1#TDM 4213612L4#ATM 4213612L4#...

lang:i-klnglon **score:16** filesize: 656.27 K page_count: 21 document date: 2021-12-15

Model	Part Number	Description	List Price	Discount	Extended Price
TA 850	127006L2	Power Supply for Total Access 850 Series, Supports 48 VDC applications, Required for operation of Total Access 850	\$700.00	85%	\$124.50
TA 850	127006L3	48 VDC Input Cable for Total Access 850 Series, Required for operation of Total Access 850, Supports 48 VDC applications, AC Power Supply for 1000W power source with a 1000W/12V cable	\$140.00	85%	\$23.10
TA 850	127006L4	Water-tight network interface system, Supports 12 VDC applications, Required for operation of Total Access 850, Supports 12 VDC applications, AC Power Supply for 1000W power source with a 1000W/12V cable	\$140.00	85%	\$23.10
TA 850	127006L5	Water-tight network interface system, Supports 12 VDC applications, Required for operation of Total Access 850, Supports 12 VDC applications, AC Power Supply for 1000W power source with a 1000W/12V cable	\$140.00	85%	\$23.10

Model	Part Number	Description	List Price	Discount	Extended Price
TA 850	127006L2	Power Supply for Total Access 850 Series, Supports 48 VDC applications, Required for operation of Total Access 850	\$700.00	85%	\$124.50
TA 850	127006L3	48 VDC Input Cable for Total Access 850 Series, Required for operation of Total Access 850, Supports 48 VDC applications, AC Power Supply for 1000W power source with a 1000W/12V cable	\$140.00	85%	\$23.10
TA 850	127006L4	Water-tight network interface system, Supports 12 VDC applications, Required for operation of Total Access 850, Supports 12 VDC applications, AC Power Supply for 1000W power source with a 1000W/12V cable	\$140.00	85%	\$23.10
TA 850	127006L5	Water-tight network interface system, Supports 12 VDC applications, Required for operation of Total Access 850, Supports 12 VDC applications, AC Power Supply for 1000W power source with a 1000W/12V cable	\$140.00	85%	\$23.10

[\[pdf\]](#)

efrancis State of Texas DIR portal adtran 80 pub Library WSCA ||| Model TA 850 TA 850 TA 850 TA 850 TA 850 Part Number Description 1175006L2 1175043L3 Power Suppl ... elnet, Craft/Console port, TFTP support and stateful inspection firewall. 1,225.00 35 796.25 **4212912L1** Total Access 912 - T1 network interface, 12 FXS ports, DSX-1 port, 10/100 BaseT and IP Ro...

lang:en **score:14** filesize: 1.21 M page_count: 349 document date: 2018-01-03

Model	Part Number	Description	List Price	Discount	Extended Price
TA 850	127006L2	Power Supply for Total Access 850 Series, Supports 48 VDC applications, Required for operation of Total Access 850	\$700.00	85%	\$124.50
TA 850	127006L3	48 VDC Input Cable for Total Access 850 Series, Required for operation of Total Access 850, Supports 48 VDC applications, AC Power Supply for 1000W power source with a 1000W/12V cable	\$140.00	85%	\$23.10
TA 850	127006L4	Water-tight network interface system, Supports 12 VDC applications, Required for operation of Total Access 850, Supports 12 VDC applications, AC Power Supply for 1000W power source with a 1000W/12V cable	\$140.00	85%	\$23.10
TA 850	127006L5	Water-tight network interface system, Supports 12 VDC applications, Required for operation of Total Access 850, Supports 12 VDC applications, AC Power Supply for 1000W power source with a 1000W/12V cable	\$140.00	85%	\$23.10

[\[pdf\]](#) Installation Guide Accessories Price List

global price list NV3430 2ND GEN W DUAL T1TERNETWORK INTERNETWORKING ROUNETVANTA 3 Modular This is a AC Supply Battery Charger with cables to connect OPIT adtran media resources s documents rev 199fa3e506b54b1e9806ec8b0d2ddc9f hash D34C5A848483CAB90BD13F5FE57B4E0B |||

ADTRAN Part Number Short Description Category Sub Category Model Name 1200626L1 TA 612/16/24 L1 ... SYSTEMS, T1 VOITA 900 4212908L1#GW TA 908 8 FXS GATEWAY TERNETWORK TA 900 SYSTEMS, T1 VOITA 900 **4212912L1** TA 912, 2ND GEN TERNETWORK TA 900 SYSTEMS, T1 VOITA 900 4213908F1 TA908, 3RD GEN TERN...

lang:en **score:14** filesize: 911.97 K page_count: 115 document date: 2023-02-09

[\[pdf\]](#) Decleration of Conformity Catalog

efrancis Model Part Number Description List Price Discount Unilog DPT 50 pin AMP connector for FXO connectivity The Total Access 1500 uses the 1180407L1 its card \$311 00 35% \$202 15 TA 850 1175408L2 Quad FXS ADTRAN 1700595G10 Catalog assets unilogcorp 267 ITEM DOC ||| Model TA 850 TA 850 TA 850 TA 850 TA 850 Part Number Description 1175006L2 1175043L3 Power Suppl ... elnet, Craft/Console port, TFTP support and stateful inspection firewall. 1,225.00 35 796.25 **4212912L1** Total Access 912 - T1 network interface, 12 FXS ports, DSX-1 port, 10/100 BaseT and IP Ro... lang:en **score:12** filesize: 1.21 M page_count: 349 document date: 2018-01-03

Model	Part Number	Description	List Price	Discount	Extended Price
TA 850	127006L2	Power Supply for Total Access 850 Series, Supports 48 VDC applications, Required for operation of Total Access 850	\$700.00	85%	\$124.50
TA 850	127006L3	48 VDC Input Cable for Total Access 850 Series, Required for operation of Total Access 850, Supports 48 VDC applications, AC Power Supply for 1000W power source with a 1000W/12V cable	\$140.00	85%	\$23.10
TA 850	127006L4	Water-tight network interface system, Supports 12 VDC applications, Required for operation of Total Access 850, Supports 12 VDC applications, AC Power Supply for 1000W power source with a 1000W/12V cable	\$140.00	85%	\$23.10
TA 850	127006L5	Water-tight network interface system, Supports 12 VDC applications, Required for operation of Total Access 850, Supports 12 VDC applications, AC Power Supply for 1000W power source with a 1000W/12V cable	\$140.00	85%	\$23.10



[\[pdf\]](#) Catalog

Communication Products Catalog Section 10 null Dick 12C0001X00 Anixter CP 2013 Sec10 Switches EN

US anixter content dam Catalogs Communications |||

Fiber Integration Made Easy. My network is constantly evolving to meet the broadening range of capa ... all calls TOTAL ACCESS 900 SERIES Anixter No.

Vendor No. 395113 4212904L1 395153 4212908L1 395154 **4212912L1** 395155

4212916L1 363359 4212924L1 397279 4212924L2 Description Total Access 904, 4

FXS To...

lang:en **score:10** filesize: 1.03 M page_count: 46 document date: 2013-07-25