ADTRAN 4243908F2

ADTRAN Total Access 908E Gen 3 Router User Manual

Model: 4243908F2

1. INTRODUCTION

This manual provides essential information for the installation, configuration, operation, and maintenance of the ADTRAN Total Access 908E Gen 3 Router. This device is designed for carrier Ethernet and SIP/MGCP Voice over IP (VoIP) networks, offering robust routing and voice features for efficient IP service delivery.

2. SAFETY INFORMATION

Observe the following safety precautions during installation and operation:

- Ensure the device is installed in a well-ventilated area to prevent overheating.
- Use only the power adapter supplied with the unit.
- Do not expose the device to water or excessive humidity.
- Avoid placing the device near heat sources or in direct sunlight.
- Disconnect power before cleaning or performing any maintenance.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- ADTRAN Total Access 908E Gen 3 Router (Model 4243908F2)
- Power Cord
- Rack Mounts (if applicable)
- Console Cable

4. PHYSICAL OVERVIEW

This section details the physical components and ports of the ADTRAN Total Access 908E Gen 3 Router.

Figure 1: ADTRAN Total Access 908E Gen 3 Router, illustrating the front and rear panels. The top image shows the front panel with LED indicators, while the bottom image displays the rear panel with various connectivity ports.

4.1 Front Panel Indicators

The front panel of the router features several LED indicators to display the device's operational status:

- **VOICE:** Indicates the status of voice services.
- **STATUS:** Indicates the overall system status.
- **GIG 1:** Status for the Gigabit Ethernet port 1.
- **USB:** Indicates USB port activity.
- **T1 (1-4):** Status for T1 interfaces 1 through 4.
- **ETH 1, ETH 2:** Status for Ethernet ports 1 and 2.

4.2 Rear Panel Ports

The rear panel provides various connectivity options:

- **VOICE (DB-25):** Connector for voice services.
- **FXO 0/0 (RJ-11):** Foreign Exchange Office port for analog line connection.
- **T1 0/1 - T1 0/4 (RJ-48C):** Four T1/E1 interfaces for digital voice and data.
- **ETH 0/1, ETH 0/2 (RJ-45):** Fast Ethernet ports.
- **GIG 0/1 (RJ-45):** Gigabit Ethernet port (10/100/1000 BASE-T).
- **USB:** USB port for future expansion or configuration.
- **CRAFT (DB-9):** Console port for local management access.
- **BBU:** Battery Backup Unit connector.
- **AC INPUT:** Power input connector.

5. SETUP

Follow these steps to set up your ADTRAN Total Access 908E Gen 3 Router:

5.1 Placement

Place the router on a stable, flat surface or install it in a standard 19-inch equipment rack using the provided rack-mount brackets. Ensure adequate airflow around the unit.

5.2 Power Connection

1. Connect the power cord to the **AC INPUT** port on the rear panel.
2. Plug the other end of the power cord into a grounded electrical outlet.
3. The device will power on automatically. Observe the front panel LEDs for initial boot-up status.

5.3 Network Connections

Connect your network cables to the appropriate Ethernet ports:

- **WAN Connection:** Connect your Internet service provider's Ethernet cable to the **GIG 0/1** port.
- **LAN Connections:** Connect local network devices (e.g., switches, computers) to the **ETH 0/1** or **ETH 0/2** ports.

5.4 Voice Connections

Depending on your service, connect voice lines:

- **Analog Lines:** Connect analog telephone lines to the **FXO 0/0** port.
- **Digital T1 Lines:** Connect T1 lines to the **T1 0/1** through **T1 0/4** ports.
- **Voice Equipment:** Connect voice equipment to the **VOICE** port using the appropriate cable.

5.5 Console Connection (Optional)

For initial configuration or troubleshooting, connect a computer to the **CRAFT** port using the console cable.

6. OPERATING INSTRUCTIONS

After physical setup, configure and operate the router.

6.1 Initial Power-Up

Once connected to power, the router will initiate its boot sequence. Monitor the **STATUS** LED on the front panel. A steady green light typically indicates successful boot-up and operational status.

6.2 Accessing the Management Interface

The ADTRAN Total Access 908E Gen 3 can be managed via a web-based Graphical User Interface (GUI) or a Command Line Interface (CLI) through the console port.

- **Web GUI:** Open a web browser and enter the router's default IP address (refer to your network administrator or product documentation for the specific IP). Enter the default username and password when prompted.
- **CLI (Console):** Use a terminal emulation program (e.g., PuTTY, Tera Term) on your computer connected to the **CRAFT** port. Configure the serial connection settings (e.g., baud rate 9600, 8 data bits, no parity, 1 stop bit, no flow control).

6.3 Basic Configuration

Refer to the comprehensive ADTRAN Operating System (AOS) documentation for detailed configuration instructions. Key configuration areas include:

- **IP Addressing:** Configure WAN and LAN IP addresses, subnet masks, and default gateways.
- **Routing:** Set up static routes or dynamic routing protocols.
- **VoIP Settings:** Configure SIP or MGCP parameters, including registrar servers, proxy servers, and dial

plans.

- **Firewall and Security:** Implement access control lists (ACLs) and other security features.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your router.

7.1 Firmware Updates

Periodically check the ADTRAN support website for the latest firmware versions. Updating firmware can provide new features, performance improvements, and security patches. Follow the instructions provided with the firmware package carefully.

7.2 Configuration Backup and Restore

Regularly back up your router's configuration to an external storage device. This allows for quick restoration in case of accidental changes or system issues.

7.3 Cleaning

Clean the exterior of the router with a soft, dry cloth. Do not use liquid cleaners or aerosol sprays. Ensure ventilation openings are free from dust and obstructions.

8. TROUBLESHOOTING

This section addresses common issues you might encounter.

8.1 LED Indicator Meanings

LED	Status	Description
STATUS	Solid Green	System is operating normally.
STATUS	Flashing Green	Booting up or performing a task.
STATUS	Solid Red/Amber	System error or fault.
VOICE	Solid Green	Voice services are active.
VOICE	Off	Voice services are inactive or not configured.
ETH/GIG	Solid Green	Link established.
ETH/GIG	Flashing Green	Activity on the port.
ETH/GIG	Off	No link or port disabled.

8.2 Common Issues

- **No Power:** Ensure the power cord is securely connected to both the router and the electrical outlet. Verify the outlet is functional.
- **No Network Connectivity:** Check Ethernet cable connections. Verify LED indicators for the connected ports. Confirm IP configuration settings.
- **Voice Service Issues:** Check T1/FXO line connections. Verify VoIP configuration settings (SIP/MGCP registration). Consult your service provider.

- **Cannot Access Web GUI:** Ensure your computer is on the same network segment as the router. Verify the router's IP address and your computer's network settings. Try clearing your browser's cache.
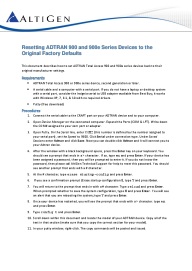
9. SPECIFICATIONS

Key technical specifications for the ADTRAN Total Access 908E Gen 3 Router (Model 4243908F2):

- **Brand:** ADTRAN
- **Model Number:** 4243908F2
- **Hardware Platform:** PC
- **Item Weight:** 8.32 pounds
- **Product Dimensions:** 22.5 x 16.5 x 6 inches
- **Color:** Black/blue
- **Connectivity Technology:** Ethernet
- **LAN Port Bandwidth:** 10/100/1000 megabits per second (Gigabit Ethernet)
- **Special Feature:** WPS (Wireless Protected Setup - Note: This router is primarily wired, WPS may refer to a related feature or be a general specification from the source data)
- **Included Components:** Router
- **UPC:** 607565037399

10. WARRANTY AND SUPPORT

ADTRAN products are typically covered by a limited warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official ADTRAN website.
For technical assistance, product support, or to report issues, please contact ADTRAN customer support through their official channels. Have your product model number (4243908F2) and serial number ready when contacting support.

Related Documents - 4243908F2

	[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.
	[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.

[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 854-6/v6 Service Delivery Gateway Quick Start Guide](#)

This document provides a quick start guide for ADTRAN's 854-6 and 854-v6 Wi-Fi 6 2.5G Service Delivery Gateways. It covers product features, installation steps, connection options, status LED indicators, product specifications, and essential safety and regulatory information.

[ADTRAN 841-t6 Service Delivery Gateway Quick Start Guide](#)

A quick start guide for installing and setting up the ADTRAN 841-t6 Service Delivery Gateway, a Wi-Fi Mesh Access Point and Remote Gateway.