

4900 USB ATA

Analog Terminal Adapter for the
Nortel IP Softphone 2050



User Guide

Algo Communication Products Ltd.
www.algosolutions.com

DC4900-UG-11

FCC Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) Reorient or relocate the receiving antenna, 2) Increase the separation between the equipment and receiver, 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected, or 4) Consult the dealer or an experienced radio/TV technician for help.

Copyright © 2007 Algo Communication Products Ltd. All Rights Reserved.

Algo® is a registered trademark of Algo Communication Products Ltd. All other trademarks are the property of their respective owners.

Document #DC4900UG-11; 24-January-2007

Table of Contents

Introduction	4
<i>Features.....</i>	<i>5</i>
<i>Applications.....</i>	<i>5</i>
<i>Typical Connection Diagram</i>	<i>6</i>
<i>Package Contents.....</i>	<i>6</i>
<i>Connections.....</i>	<i>7</i>
Installation	7
<i>Troubleshooting</i>	<i>8</i>
Specifications	11
Warranty and Repair.....	12
About Algo	13
<i>Contact Information</i>	<i>13</i>
<i>Sales</i>	<i>14</i>
<i>Product Registration</i>	<i>14</i>
Related Products	16

Introduction

Algo's USB Analog Terminal Adapter enables the use of a traditional analog wired or cordless telephone, TTY/TDD terminal, fax machine (refer to footnote on page 5), or other analog device with a Nortel IP Softphone 2050 (Version 2 B254 or newer) for Business Communication Manager (BCM) or Communication Server 1000 (CS 1000).

Ring voltage and Caller Line Identification are provided for inbound calls to the 2050 and outbound calls are easily made with DTMF (touch-tone) dialing. The USB ATA is powered entirely by the host PC's USB port to minimize cords and connections. The USB ATA conforms to all relevant Windows Plug & Play specifications making installation fast and simple.

Features

- USB Powered
- Two wire RJ11 Telephone jack for connecting analog telephone
- Output for optional external alerter (message waiting and ring notification)
- Call Display conversion from 2050 window

Applications

- Traditional wired analog telephone
- Cordless telephones for greater mobility when away from desk
- Fax machines¹
- Conference/Speaker telephones
- Analog telephone system trunk connection
- TTY/TDD terminals for hearing impaired

¹ Fax functionality requires G.711 Codec (no T.38 Support). Fax performance may vary with PC and network capability. For this reason, Algo does not recommend the USB Analog Terminal Adapter for frequent multi-page fax traffic. Some PCs may require settings to improve audio performance necessary for fax applications. Please visit www.algosolutions.com/4900 for more information.

Typical Connection Diagram



Package Contents

- 4900 USB Analog Terminal Adapter
- User Guide
- 6 ft (1.8m) USB Cable

Connections



Installation

1. Connect the 4900 USB ATA to the PC using the supplied USB cable.
2. The first time the USB ATA is plugged in, there will be a pause while Windows configures the device and locates the appropriate driver software. During the installation there may be a prompt to supply the original Windows CD ROM so that Windows can locate the drivers.

3. In the IP Softphone 2050 Settings tool, select the section for “Sound Devices” and select “USB Audio Device” for both the Microphone and Speaker options under “Headset or Handset Device”.
4. Start the IP Softphone.

Troubleshooting

If the USB ATA is not functioning correctly, please try the following in order:

1. Verify that you have Windows 2000 or Windows XP. This can be done by clicking on My Computer and selecting Properties.
2. Check that “Universal Serial Bus controllers” appears in the Windows Device Manager. If it does not appear, confirm USB is enabled in your computer’s setup menus.
3. Check that “USB Audio Device” appears under “Sound, video and game controllers” in the Windows Device Manager. If it does not, and the above conditions are correct, then see the troubleshooting section under USB in Windows Help.

Other steps you can take to verify proper operation of the 4900:

Check Equipment and Connections

Lift the handset or go off-hook on your Telephone or device. Verify that IP Softphone 2050 indicates off-hook as well. If it does not, check the following:

- Telephone is properly connected to ATA via Telephone cable
- ATA is properly connected to PC via USB cable
- If USB Hub is used, ensure that the Hub is line powered (ATA is a high power device that requires 500mA)
- IP Softphone 2050 version meets minimum requirements: Version 2 B254
- IP Softphone 2050 is successfully connected to server and can go off-hook using the 2050 interface instead of the ATA
- Telephone is functional (try connecting to standard analog line instead)

Check for Dial Tone

Lift the handset on your Telephone and listen for dial tone. If there is none, check the following:

- IP Softphone 2050 indicates off-hook state
- Audio settings in the IP Softphone 2050 are correct

Check Dialing

Lift the handset on your telephone and dial an extension. The digits dialed should appear in the IP Softphone 2050 Window and the dialed telephone should ring. If not, check the following:

- IP Softphone 2050 indicates off-hook state
- Telephone is set to tone dialing (not pulse). You should hear the tones in the handset of the telephone when dialing
- Dial using the IP Softphone 2050 keypad instead. If this does not work, verify that the telephone number that you are trying to dial is correct

Connect with another Telephone

Make a call to another Telephone. Verify that you can hear the other party, and that they can hear you. If this does not work, check that the audio settings in the IP Softphone 2050 are correct.

Specifications

Dimensions and Weight

Dimensions	Width - 2-5/8" (67mm); Length - 4-3/16" (106mm); Height - 1-1/8" (29mm)
Weight	100g (3.5 oz.)

Telephony

Ring voltage	60 Vrms Sinewave
CLID Type	GR-30-CORE (North American Standard)
Analog Port	Two wire RJ11
Loop Current	41 mA
Talk Battery	48 Vdc
REN #	1 (Ringer Equivalency Number)

Compatibility

PC	Windows 2000 or Windows XP; One available USB port required
USB	Version 1.1 or greater
USB Power	High power device (500mA) If connected to USB Hub, USB Hub requires line power
Softphone	Nortel IP Softphone 2050 – Version 2 B254 or newer Note: The Nortel USB Audio Adapter, and Nortel Mobile USB Headset Adapter cannot be used at the same time as the 4900 USB ATA

Relay Output

Alert Output	Isolated solid state relay
Connection	2.5mm jack
Voltage	Max 30V SELV
Current	Max 50mA non-inductive
Function	Ring & Message Waiting (triggers when either event occurs)

Regulatory Approvals & Declaration

Compliance	FCC, CSA, CE, ROHS
------------	--------------------

Warranty and Repair

The Algo 4900 USB ATA is warranted to be free of defects in material and workmanship for a period of 18 months from the date of manufacture. A label on the bottom of the unit identifies the manufacturing code in the year and week format (0620YYXXXX for the twentieth week of 2006).

If you need to return the product for repair, please contact Algo for a Return Merchandise Authorization (RMA) number and instructions prior to shipment. All products returned for repair should be shipped freight prepaid with the RMA# clearly visible on the package. Products will be returned freight collect for out-of-warranty repairs or returned prepaid for warranty repairs in Canada or the USA.

In North America, ship product for repair with RMA# to:

Algo Communication Products Ltd.
Repair Centre
4500 Beedie Street
Burnaby, BC, Canada, V5J 5L2

Outside of North America, please contact Algo for the name of the nearest repair centre.

About Algo

Algo is a leading developer and manufacturer of professional quality telecom products available globally through telecom distributors and business telephone equipment resellers.

Algo products include:

- Desktop single-channel call recorders
- Multi-user centralized call recording solutions
- Visual and audible alerters
- Doorphones and security intercom systems
- Specialty handsets
- Test equipment and wiring kits
- Custom products and development

Contact Information

Algo Communication Products Ltd.
4500 Beedie Street
Burnaby, British Columbia
Canada, V5J 5L2
www.algosolutions.com

Sales

1.604.454.3790, Fax: 1.604.437.5726

Email: sales@algosolutions.com

North American Support

Toll Free: 1.877.884.2546

Email: support@algosolutions.com

Europe, Middle East, Africa:

Support Email: EMEAsupport@algosolutions.com

Sales Email: EMEAsales@algosolutions.com

Product Registration

Register your Algo 4900 USB ATA for news, developments, updates, and support.

To register, please visit:

www.algosolutions.com/register

4900 USB Analog Terminal Adapter

Related Products

1127P Visual Alerter

A desktop or mountable visual alerter for message waiting and ring indication. Designed to be visible from all angles. Available in red, green, or blue.

www.algosolutions.com/1127



CCR2050 Call Recorder

Algo's CCR2050 Call Recorder provides personal desktop recording for users of Nortel's IP Softphone 2050 V2. With the CCR2050, call records can be retrieved for playback and email, commented, searched, and sorted via an easy-to-use yet powerful software interface.

www.algosolutions.com/2050



Algo Communication Products Ltd.

Toll-free (USA/Canada) 1.877.884.2546

Or

Tel: 604.454.3790 Fax: 604.437.5726

sales@algosolutions.com support@algosolutions.com