PMC Analog Modem Expansion card

Teldat-Dm 608-I

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Chapter 1 About This Guide

This installation guide contains the step by step instructions that you need to follow in order to correctly install, uninstall and replace the PMC Analog Modem cards in the ATLAS router family.

1.1 Devices

The information contained in this installation guide only applies to the PMC Analog Modem expansion cards.

1.2 Warnings and notes

Observe the warnings and instructions given in this manual to avoid and prevent injuries or damage during installation and maintenance. Please follow the security procedures and guidelines when working near electrical equipment. The warnings and notes are provided in each chapter as appropriate.

1.3 Who should read this manual?

This manual should be read by installers and network administrators who need to install, configure or maintain networks. This guide assumes that the installer is familiar with network electronics and technologies.

1.4 What is in this manual?

This installation guide contains the following information:

- A description of the general characteristics of the PMC Analog Modem expansion cards.
- A description of the steps to carry out to install the PMC Analog Modem cards in ATLAS routers.
- A description of the PMC expansion card LEDs and the pinouts for their connectors.

1.5 How is the information organized?

This document aims to provide all the information necessary for installing the PMC Analog Modem cards in the ATLAS router family.

- PMC Analog Modem cards characteristics.
- PMC Analog Modem cards connectors.
- Requirements prior to installation.
- Installing the PMC Analog Modem cards.

1.6 Technical Support

Teldat SA offers a technical support service.

Contact information:

Web: http://www.teldat.com

Tel.: +34 918 076 565

Fax: +34 918 076 566

Email: support@teldat.com

1.7 Related documentation

ATLAS router family installation manuals

Teldat-Dm605-I *Installation of PMC expansion card for the ATLAS 60* .

The manufacturer reserves the right to make changes and improvements to the appropriate features in both the software and hardware of this product, modifying the specifications of this manual without prior notice.

The images presented on the front and back panels of the devices are provided as information guidelines only. Some small modifications may exist in the actual device.

Chapter 2 PMC Analog Modem Expansion Cards

This manual focuses on the 2-port PMC Analog Modem card.

Analog modems are characterized by their ability to convert digital signals to analog telephone signals and vice versa. In this way the transmission and reception of data over a standard telephone line is possible.

Fig. 1: PMC 2 Analog Modem Card

2.1 PMC 2 Analog Modem expansion card: Characteristics

The main characteristics of the PMC 2 Analog Modem expansion card are as follows:

PMC 2 Analog Modem Cards: Characteristics

Ports	2 RJ-11 analog modem ports
Data Standards	ITU-T • V.92 • V.90 • V.34 • V.32bis • V.32 • V.22bis • V.22 • V.23 • Bell 212A & Bell 103 * Depending on the model
Types of dialing	• Pulses • Tones
Error correction protocols	V.42 designs error correction with the LAP-M and MNP protocols: • LAP-M *("Link Access Procedure for Modems")* • MNP 2-4 *("Microcom Networking Protocol")*
Data compression	• V.42bis • MNP 5
Fax Standards	ITU-T • V.17 • V.29

	• V.27ter • V.21 ch.2 (Class 1 and 1.0 Commands)
Speed	56 Kbps per port
Other Characteristics	• DTMF *("Dual-Tone Multi-Frequency")* – Dialing through tones • "Caller ID" call and detection together • Configures the number of times this rings before hook off • Configures the tone duration and the wait time

2.2 PMC 2 Analog Modem expansion card: Connectors

Figure 2 shows the front board of the PMC 2 Analog Modem card:

Fig. 2: Front of the PMC 2 Analog Modem Card

The front board elements are as follows:

Elements Table for the Front of the PMC 2 Analog Modem card

Item	Description
A, B	1, 2. RJ-11 connector.

Chapter 3 Installing the PMC 2 Analog Modem expansion card

This chapter provides information on how to install and uninstall the PMC 2 Analog Modem expansion cards in ATLAS routers.

This information includes:

- Requirements prior to installation.
- Installing or replacing a PMC 2 Analog Modem expansion card.

3.1 Requirements prior to installation

In order to configure the card, you must have access to the ATLAS routers through a console or a Telnet connection. For further information, please see the section on “Connecting for configuration” found in the ATLAS router family installation manuals.

3.2 Installing or replacing the PMC 2 Analog Modem expansion card

To install or replace a PMC 2 Analog Modem card, please see the PMC cards installation generic manual corresponding to the ATLAS router model where the installation is being carried out.

Chapter 4 LEDs and connector Pinouts: Description

This chapter provides information on the PMC 2 Analog Modem expansion card LEDs and the pinouts for its connector.

4.1 PMC 2 Analog Modem expansion card: LEDs

The PMC 2 Analog Modem expansion card doesn't have any LEDs of its own.

4.2 Connector Pinouts

The PMC 2 Analog Modem card has 2 RJ-11connectors:

4.2.1 RJ-11 Connector

Figure 3 shows the RJ-11 connector pinouts. The two connectors are the same, consequently only one image is shown:

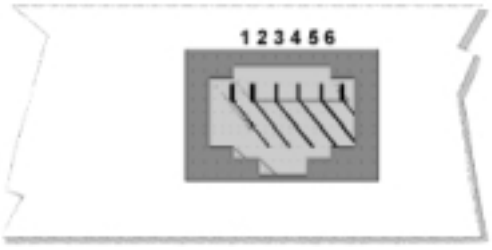

Fig. 3: RJ-11 connector Pinouts

Table 3 shows the information associated to each connector pinout:
RJ-11 connector Pinouts

RJ-11 pinouts	Signal
1	--
2	--
3	TIP
4	RING
5	--
6	--

We recommend that you use a 26 AWG cable, at the very least. This may be supplied with the card itself or be described in the safety instructions.

Warning

To reduce the risk of fire, only use a 26 AWG cable or a cable with a larger diameter.

Appendix A Safety information

A.1 Translated Safety Warnings

	To reduce the risk of fire, only use a 26 AWG cable or a cable with a larger diameter.
	Чтобы снизить риск воспламенения, используйте только кабель 26 AWG или кабель большего диаметра.
	Pour réduire le risque d'incendie, utilisez uniquement un câble 26 AWG ou de diamètre plus grand.
	Para reducir el riesgo de incendio, utilice sólo un cable 26 AWG o de un diámetro mayor.