

OVERVIEW & INSTALLATION

This guide covers the most common tasks required to get a **Digium TDMxxx** analog card working efficiently with the PBX — installing the card into the server, creating extensions for FXS ports, and creating trunks for FXO lines.

INSTALL THE CARD INTO THE PBX SERVER

- **1.** Power off the the PBX server properly.
- **2.** Open the server.
- **3.** Insert the TDMxxx card into a free **PCI slot**.
- **4.** Tighten the screw.
- **5.** If the card has an **FXS module**, connect **5 V power** to the card.
- **6.** Close the server.
- **7.** Connect telephone handset(s) to the **FXS** ports and/or telephone line(s) to the **FXO** ports.
- **8.** Boot up the the PBX server.

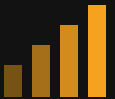
If everything is done as described above, the TDMxxx is successfully installed in the the PBX server.

AUTO DETECTION

The PBX includes an auto-detection mechanism that detects the number and position of the **FXS / FXO modules** on the TDMxxx — the card appears as a selectable UAD/device (example: **TDM11B**).



EXAMPLE TDMXXX CARD



CREATING EXTENSIONS (FXS PORTS)

STEP ONE — ADD EXTENSION

- Navigate to **Extensions** and click **Add Extension**.
- Select the TDMxxx card from the **UAD** select box. Example: **TDM11B**.
- Select Location: **Local**. *Local is for extensions on the LAN — an analog line extension cannot be of a Remote type.*
- Click **Next**.

STEP TWO — EXTENSION VALUES

Required fields:

Name	Name for the extension being created. Example: John Smith
E-mail	E-mail address associated with the extension — receives all system notification messages. Example: john@domain.com

Optional fields:

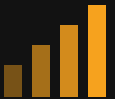
Extension	Auto-generated from the next available sequential number; can be changed. Example: 1000
Channels	Single channel, or a range of channels being configured.
Group	Every ZAPTEL trunk needs to belong to a group — selecting any group enables it. The PBX auto-selects the next available group; groups already in use are hidden from the select box.
PIN	Auto-generated 4-digit PIN for voicemail and online self care. Example: 0942
FXS Kewlstart	Receive audio/COR on an FXS kewlstart interface (FXO at the channel bank).

Click **Save**.



Digium TDMxxx Analog Card

CARD CONFIGURATION GUIDE



CREATING TRUNKS (FXO LINES)

STEP ONE — ADD TRUNK

- Navigate to **Trunks** and click **Add Trunk**.
- Select **Generic Analog** from the provider select box.
- Select the **Device**. Example: **TDM11B**. *The PBX auto-detects the number and position of FXS/FXO modules on the card.*
- Click **Next**.

STEP TWO — TRUNK VALUES (REQUIRED)

Name	Name for the trunk being created.
Emergency Trunk	If the trunk provider supports dialing of emergency services, select Yes .

Click **Save**.

OPTIONAL TRUNK FIELDS

Channels	Single channel, or a range of channels being configured.
Group	Every ZAPTEL trunk belongs to a group; selecting any group enables the trunk. Next available group is auto-selected.
FXS Kewlstart	Receive audio/COR on an FXS kewlstart interface (FXO at the channel bank).
Country	Select the trunk location.
E164	International public telecommunication numbering plan — Yes / No / N/A.
Intl. Dialing Code	Number required to make international calls from your country.

FINISH UP

Restart the the PBX server by clicking **Restart** at the top-right corner of the web interface.

GLOSSARY

DHCP	Dynamic Host Configuration Protocol — lets network administrators manage and automate IP address assignment.
IP Address / LAN / WAN	Internet Protocol address · Local Area Network · Wide Area Network.
Local / Remote	Local: devices on the LAN. Remote: devices managed from a network other than the one they connect to directly.
Hub / Switch / Router	Connection point for network devices · selects a path for data to its next destination · forwards packets between LANs/WANs.
UAD	User Agent Device.
PIN / Voicemail	Personal Identification Number · electronic voice messages stored until the recipient listens to them.
Web Interface	The system of controls with which the user manages a device.

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