

KONNECT™

KONNECT™ Application Note: Installation Checklist

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Abstract
This Application Note provides specifications and requirements needed to install and operate the KONNECT™ Office Phone System.

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1 Installation Checklist Overview

The Installation Checklist Application Note is intended to detail the requirements for a successful installation of the KONNECT™ Office Phone System.

2 Network, Power and Phone Line Requirements

- One RJ-45 LAN connection is needed where each phone will be placed
 - A PC or other network device can connect through the PC Port on your KONNECT™ phone (Note: Do not connect this port to your LAN)
- Power is required for each phone – a 120V adapter (120VAC/250mA) with a 6' cable is supplied.
 - Optionally, the 600P/600 model phones support Power over Ethernet (PoE) using the standard IEEE 802.3af specification instead of using the provided power adaptor.
- The KONNECT™ Office Phone System can support a maximum of one analog line per phone:
 - Note: each 600PL/600L has a single Phone Line Port (also known as an FXO Port)
 - Plug one and only one distinct analog phone line into a single KONNECT™ phone.
 - A fax or other analog device can be connected to an analog line in parallel with a KONNECT™ phone if desired.

3 Security and Firewall Settings

A KONNECT™ Office Phone System installation usually falls into one of two categories:

1. The LAN is running on a consumer or Small Business grade router with an integrated firewall (eg. Linksys, D-Link, NetGear, etc) using the default settings. In this case the KONNECT™ phones typically work out of the box with no firewall changes. If this is not the case with your installation refer to (2).
2. The LAN has a dedicated firewall or firewall settings have been customized. In this case the firewall administrator should open a number of TCP/UDP ports for the KONNECT™ Office Phone System to function correctly as shown below:
 - SIP traffic (port 5070, UDP)
 - RTP (ports range from 16000 to 17000, UDP)
 - TFTP (port 69, UDP)
 - SNTP (port 123, UDP)

The firewall administrator should open and test the ports before installation of the phones.

4 Internet and Bandwidth Requirements

For better performance, you should ensure you have a minimum of 100 Kbps of Internet bandwidth in each direction for each concurrent call you expect to place over the Internet. This assumes average Internet usage by employees for regular Internet activities (ie. web browsing, downloads, streaming audio, etc). Please note that calls between two KONNECT™ sites on your system will count as one concurrent call.

To optimize the performance, we recommend applying QoS (Quality of Service) to your network.

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