



# **Dialogic<sup>®</sup> IMG 1010 Integrated Media Gateway Quick Start Guide**

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Technical Support Fax: 781-449-9520

[www.dialogic.com](http://www.dialogic.com)

## IMPORTANT NOTE:

Please be aware that the following terminology and abbreviations are used throughout this document. Please also be sure to consult the legal notice for other important details.

When used herein, the term "IMG 1010" refers to the "Dialogic<sup>®</sup> IMG 1010 Integrated Media Gateway" product.

When used herein, the term "GCEMS" refers to the "Dialogic<sup>®</sup> Gate Control Element Management System"

## Overview

This IMG 1010 Quick Start Guide is an abbreviated guide which explains how to connect power and network cabling. For more information on installation and setup, please reference the online documentation at <http://www.dialogic.com/manuals>.

## Shipping Information

Review the packing list to check that all the items listed on the packing list have been sent. Should any discrepancies exist, contact your Dialogic Representative immediately.

## Connecting AC Power

### Power Specifications

If the IMG 1010 is powered by AC voltage then the AC input power must conform to the specifications in the table below. Insert one end of AC cord into rear of IMG 1010 and the other end into a grounded wall outlet, uninterruptible power supply (UPS), or surge protector.

	AC	Operating Range
Power	120 – 240 VAC / 1.5 - 3 Amps	90 – 240 VAC
Frequency	50 or 60 Hz	50-60 Hz

### AC Power Module

The AC power docking station provides an AC input power module with an integrated fuse, power switch, and standard three position female AC input connector. This connector allows the docking station to interface with all variations of AC outlets by simply using a standard power cable and compatible outlet plug.

For more information on connecting AC power see **IMG 1010-Installation and Setup Guide > IMG 1010-Hardware Installation** in online documentation.

## Connecting DC Power

### Cautions:

- Do not “daisy-chain” power connections on two or more IMG 1010 chassis.
- Do not wire chassis directly to other equipment or a common bus bar. The DC power module must be wired directly to a -48vdc fused power source.

### Power Specifications:


If the IMG 1010 is powered by DC voltage, the DC input power must conform to the specifications in the table below.

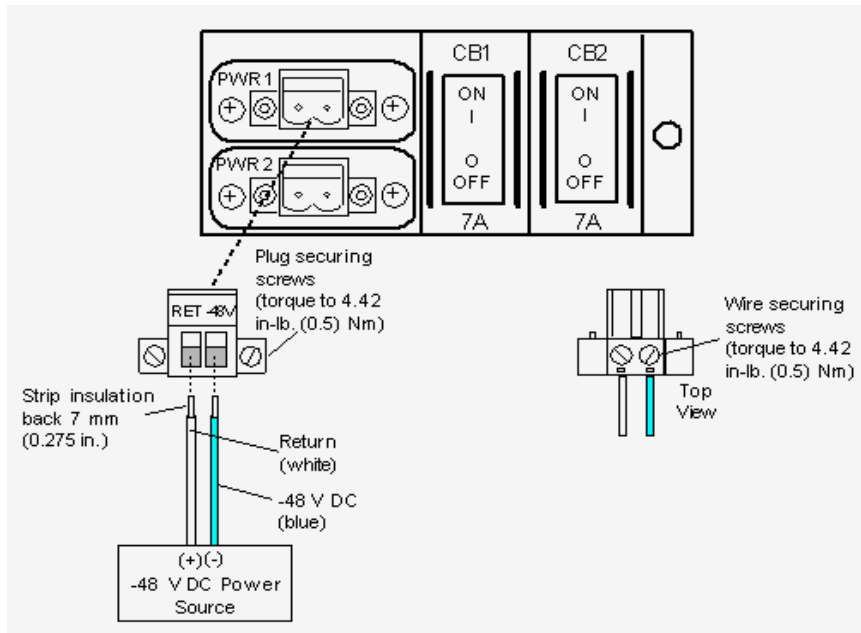
	DC	Operating Range
Power	-48 VDC Nominal / 7 Amps	-40 to -60 VAC

**-48vdc wiring**

When connecting -48 vdc to the IMG 1010, follow the instructions in the table and diagram below.

14 AWG Machine Tool Wire (MTW)	Blue = -48v    White = -48v return
DC Power Module Plugs	Dialogic Supplied (In Plastic Bag)

 <p><b>CAUTION</b></p>	<p>The DC power module plugs are polarity-sensitive. The unit will not operate if the plugs are not wired correctly, as shown below.</p>
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For more information on connecting DC power see **IMG 1010-Installation and Setup Guide > IMG 1010-Hardware Installation** in the Online documentation.

## Grounding IMG1010 (DC Version Only)

The DC version of the IMG 1010 should be connected to a true earth ground. To connect chassis to ground you will need the following equipment:

- 14-16 AWG machine tool wire (MTW) (green/yellow)
- # 10 solderless crimp with two-hole mounting option to connect to grounding lug. (Dialogic-supplied).

### Procedure

1. Remove the two-hole grounding lug at the rear of the IMG 1010 by removing the grounding screws.
2. Crimp the grounding wire to the lug. Re-attach the lug to the unit using the grounding screws.
3. Attach the other end of grounding wire to either a grounding point on the mounting rack or a building ground point.

For more information on connecting IMG 1010 to ground see **IMG 1010-Installation and Setup Guide > IMG 1010-Hardware Installation** in Online Documentation.

## Configuring Linux on GCEMS server

**IMPORTANT:** Please read and understand the IMG 1010 technical documentation prior to performing any setup or installation procedures. The documentation can be accessed through the following site: <http://www.dialogic.com/manuals>

If the IMG 1010 was purchased with the GCEMS Server then the Linux Red Hat Operating System and GCEMS application have already been installed. Downloading System Software to the IMG 1010 will be the next step. See paths below in Online Documentation.

- IMG 1010-Installation and Setup Guide > IMG 1010-Software Installation and Setup

If server was not purchased, then a server must be configured with Red Hat Enterprise Linux. The IMG 1010 supports Red Hat Enterprise Linux 3, Red Hat Enterprise Linux 4 and Red Hat Enterprise Linux 5. Refer to the individual topics located under each of the following headings in the Online Documentation for more information on configuring the Linux Server.

- IMG 1010-Installation and Setup Guide > IMG 1010-Linux Red Hat Installation
- IMG 1010-Installation and Setup Guide > IMG 1010-Software Installation and Setup
- IMG 1010-Installation and Setup Guide > IMG 1010-SD Card
- Configuring Services on GCEMS Server

## Connecting and Configuring Network Management Port 'CTRL 0'

The information below will provide the user with a basic setup sequence for connecting and configuring the IMG 1010 along with the GCEMS server to download system software and start configuring the IMG 1010 using the ClientView GUI. On the rear of the IMG 1010 are the network interfaces. The first interface -CTRL 0- is a Fast Ethernet port dedicated to network management. This port is connected to the GCEMS server and allows the GCEMS server to access the IMG 1010.

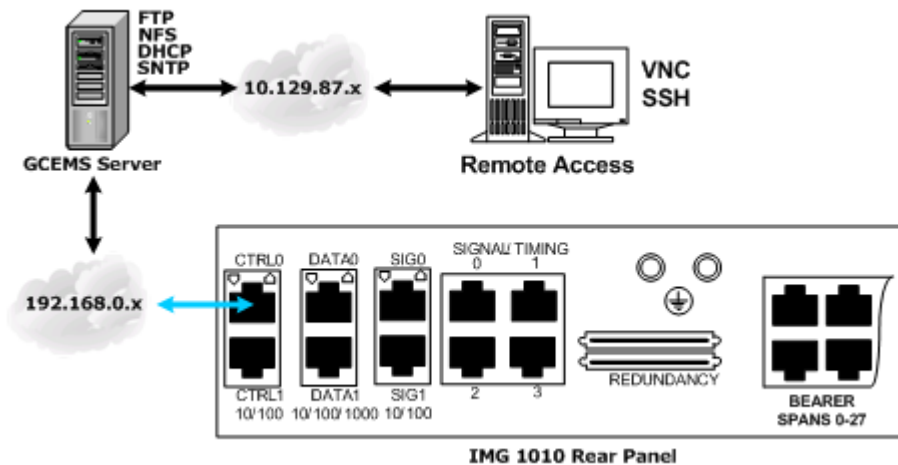
1. Connect up the cables as shown in the first figure below.
2. Once the cables are connected, configure FTP and DHCP on the GCEMS server. Locate the MAC address that is printed on a label located on the underside rear of the IMG 1010. This will be used in the dhcpd.conf file creation.

For more information on how to set up the services refer to the topics under the following sections in the Online Documentation

- IMG 1010-Installation and Setup Guide > IMG 1010-Software Installation and Setup

If your setup requires using an SD card to load system software refer to the topics under the IMG 1010-SD Card heading below in Online Documentation.

- IMG 1010-Installation and Setup Guide > IMG 1010-SD Card



## GCEMS software installation.

To take advantage of all new features, it is recommended that the latest version of GCEMS software be installed on the GCEMS Server. The most current software can be obtained from the Dialogic Technical Support website.

1. Go to the Dialogic Support Technical Website at <http://www.dialogic.com/support>
2. Select '**Downloads**'. You will require a logon username and password to access the downloads site. (A support contract is needed to access this site.) Within this site will be two software binary files with the following format. Download the latest version of these files.

- IMG\_10.5.x.135.bin
- IMGUserInterface\_10.5.x.135.bin

**NOTE:** If you do not have a support contract with Dialogic, then the software supplied to you on the Software CD can be used.

3. Refer to the topics under the following headings in the Online Documentation to install the GCEMS software

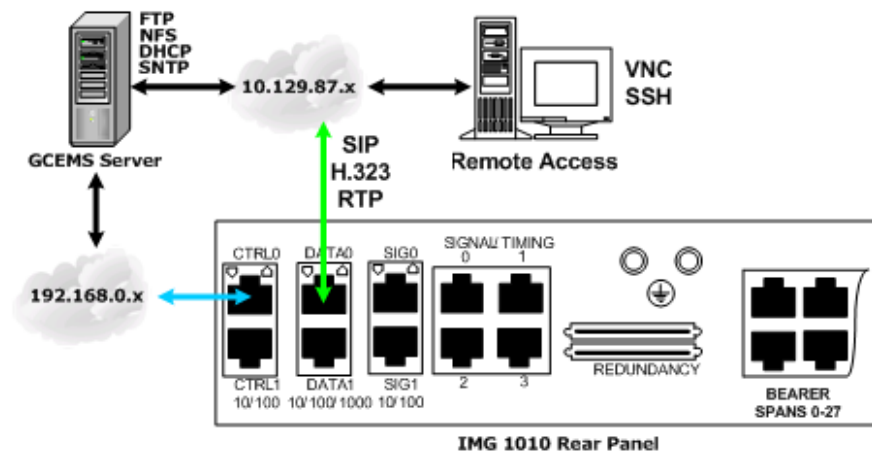
- IMG 1010-Installation and Setup Guide > IMG 1010-Software Installation and Setup

## Connecting DATA0 Port

1. The port DATA 0 that is located on the rear of the IMG 1010 is a Gigabit-Ethernet port and is dedicated to VoIP Bearer traffic. The DATA 0 port can be on either the same IP network as the management network, or can be connected to a separate network. See the topics under the following headings in the Online Documentation for more information.

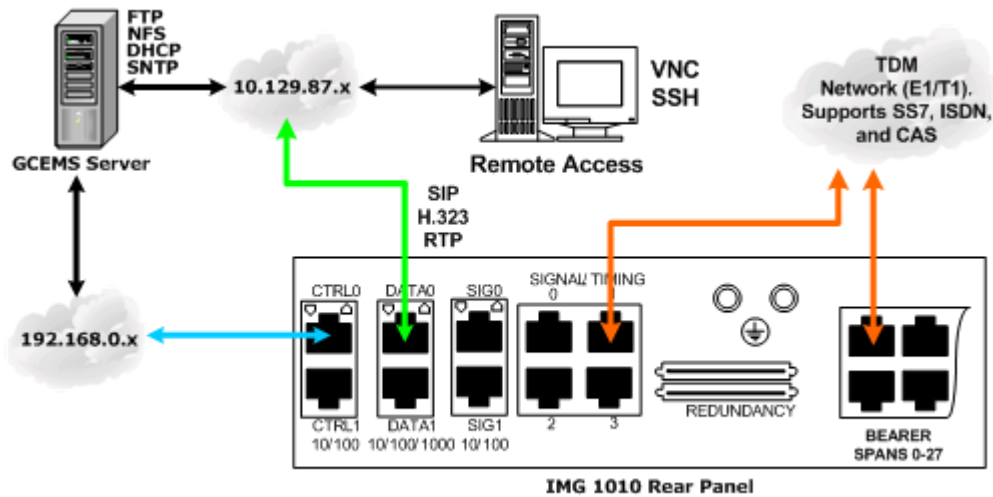
- IMG 1010-Installation and Setup Guide > IMG 1010-Hardware Installation

2. The IP addresses for these ports will be assigned through the ClientView GUI. See the ClientView section below for more information.



## Connecting TDM Signaling and Bearer Ports

- The Bearer ports (Interface Offsets) 0-27 are connected to the TDM network. Each Bearer Port can have signaling and bearer channels configured on it.
- The Signaling/Timing Ports are connected to the TDM network, and can also be used for signaling and bearer traffic the same as the Bearer ports. See the 'T1/E1' under the 'Configuration' section in the online help for more information.
- SS7 Signaling links and ISDN D-channels can be brought in over either the Signal/Timing Ports or the Bearer Ports. See 'signaling' under the 'Configuration' section in the Online Documentation for more information.



## Starting ClientView to start Configuring Switch

Once the IMG 1010 has software installed, the cabling is connected, and the GCEMS server has been configured, the ClientView application can be used to configure the system. Below are a few topics from the Online Documentation to get started on configuring the IMG 1010 through the ClientView GUI.

- Configuration > ClientView > (All topics under this book)
- Configuration > Introduction
- Configuration > Node Configuration Wizard
- Configuration > Basic Configuration

From here, the IMG 1010 can be configured for your network. Use the Online Manual Configuration, Clientview, and ClientView Pane sections to configure the IMG 1010.