

Quick Start Guide

IMG Quick Start Guide Overview

This *IMG Quick Start Guide* is intended to show you how to quickly connect power to your IMG and connect cables for Network Control and VoIP and SS7 bearer channels and signaling.

See the *IMG Installation and Setup Guide* on the Technical Publications CD ROM or the Excel Support Web Site for more detailed information on installing and setting up the IMG and the GateControl EMS server.

Shipping Information

After opening your shipment, verify that you have received the following items:

1. IMG 1010
2. GateControl EMS Server
3. Software CD ROM
4. Technical Publications CD ROM
5. 2 DC Power Module Plugs, in plastic bag (DC Chassis only)
6. AC Power Cord, if ordered (AC Chassis only)

If there are any discrepancies, contact your supplier.

Topics

[Quick Start - Connecting Power](#)

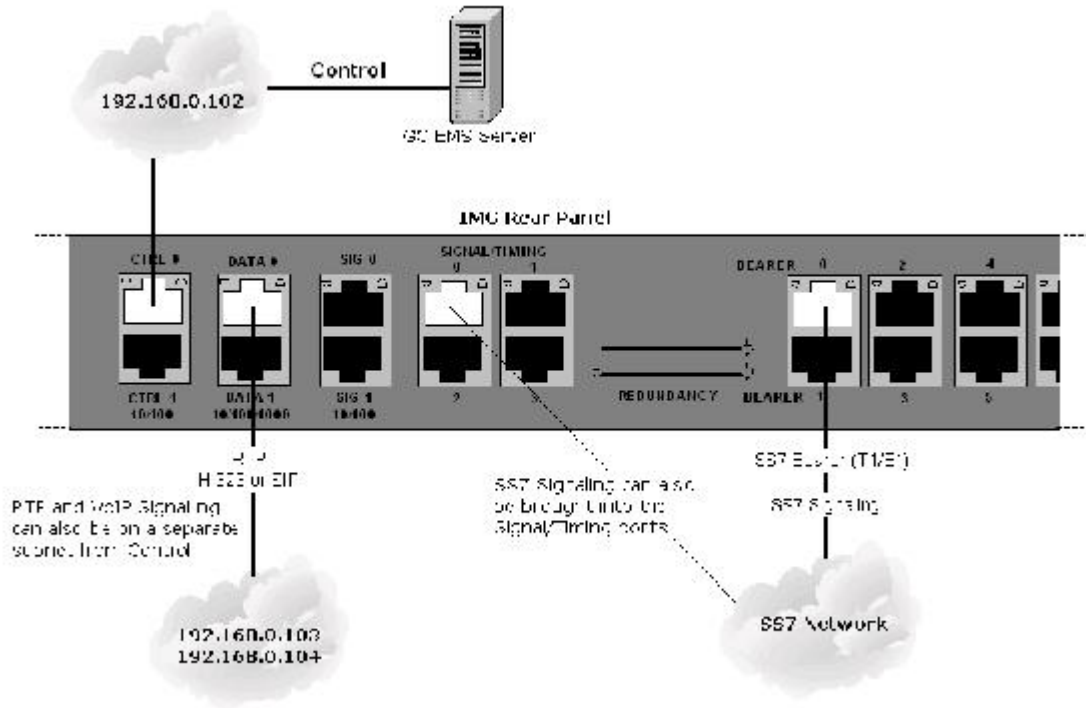
[Quick Start - Connecting Ethernet and TDM Cables](#)

Connecting Ethernet and TDM Cables

CAUTION: Cantata recommends that you configure any routers or switches connected to the IMG for 100Mbit and Auto-negotiation. Disabling auto-negotiation may result in packet loss. Also, broadcast propagation between ports must be enabled to allow BootP.

The IMG supports a variety of scenarios for designing your IP network. In this example, you connect your Network Management to CTRL 0 and both your VoIP bearer channels and H.323/SIP Signaling to DATA 0. For information on all of the scenarios supported, see Network Interface Scenarios in the On-line Help.

1. Connect to Control port
CTRL 0 is a Fast Ethernet port dedicated to network management that allows the GateControl EMS to access the Server.
 - a. To assign an IP address to the IMG, locate the MAC address that is printed on a label on the underside of the IMG 1010. Enter the MAC address in the DHCP/BOOTP configuration.
 - b. In the DHCP server, assign an IP address to the IMG that is on the same subnet as the GateControl EMS. Once this IP address is set, the GateControl EMS will be able to connect and provision the IMG 1010 Gateway
2. Connect to Data ports
DATA 0 is a Gigabit-Ethernet port dedicated to VoIP Bearer Channels and VoIP Signaling. This port can be on the same IP network as the management network or on a separate network. You assign the IP addresses for these ports through the ClientView GUI.
3. Connect SS7 Signaling and Bearer channels.
The bearer path, SS7 voice circuits, come in over the BEARER ports 0-27 ports, and can be configured as either T1 or E1.
The SS7 Signaling links can either be brought into one of the SIGNALING/TIMING ports or one of the Bearer spans.



Connecting Power to the IMG

Cautions

- Do not daisy-chain two or more IMG chassis.
- Do not wire chassis directly to other equipment or to a common bus bar. Most feeders from the -48 V to frames are limited to about 20 A, whereas load distributions support several hundred amperes.
- Direct wiring to the fused power source eliminates the coupling mechanism, which appears as impedance in the power distribution system. If impedance is not controlled, transient voltages will cause temporary or permanent malfunctions.

Power Specifications

The input power must conform to the following specifications.

	AC	DC
Power	120-240 V AC, 60-50 Hz, 3A-1.5A	-48 V DC (nominal), 7A
Range	90 to 240 V AC	-40 to -60 V DC

-48 V Wiring

The DC power module must be wired directly to a -48 V fused power source. To connect a power source to the chassis, you need the following:

14 AWG machine tool wire (MTW)	Blue for -48 V, White for -48 V Return
DC power module plugs	Cantata-supplied (in plastic bag)



CAUTION

The DC power module plugs are polarity-sensitive. The unit will not operate if the plugs are not wired correctly, as shown below.

