

# Specifications

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CPU	Intel Celeron J1800 Processor, @ 2.41GHz 4 cores
Memory	2GB DDR3
Display	Integrated Intel HD Graphics, 1x HDMI and 1x VGA
Keyboard and Mouse	USB keyboard and mouse (not required and not included)
Peripherals	<ul style="list-style-type: none"><li>• USB 2.0 ports (3x)</li><li>• SS USB 3.0 port (1x)</li><li>• Network gigabit interface (2x)</li><li>• VGA Video out port (1x)</li><li>• HDMI Video out port (1x)</li><li>• Audio in via 3.5mm port (1x)</li><li>• Audio out via 3.5mm port (1x)</li><li>• RS232 port (1x)</li></ul>
Operating System	Ubuntu 18.04 LTS
Temperature/Humidity	Operating: 0 °C to 50 °C, Storage: -20 °C to 80 °C Humidity: 10% to 90% (non-condensing)
Dimensions	5.24 x 5.00 x 1.38 inch (133 x 127 x 35 mm)
Weight	1.5lbs (0.7kg)
Accessories Included	External 12VDC @ 2A Power Adaptor
Regulatory	FCC, CE, RoHS, WEEE
Order Information	29977 Network Controller for 4K HDMI over IP

Please download the complete 29977 Network Controller for 4K HDMI over IP product operation manual from the C2G web site (at [www.cablestogo.com](http://www.cablestogo.com)).

## C2G Warranty

At C2G we want you to be totally confident in your purchase. That is why we offer a warranty on this device. If you experience problems due to workmanship or material defect for the duration of this warranty, we will repair or replace this device.

To request a Return Merchandise Authorization (RMA) number, contact customer service at 800-506-9607 or [www.c2g.com](http://www.c2g.com).



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## Network Controller for 4K HDMI® over IP (29977) Quick Start Guide



### Overview

The C2G Network Controller for 4K HDMI over IP (29977) is a Linux-based PC that allows users to control hub-installed C2G products via an Ethernet Web interface.

When installed on a local area network (LAN), the C2G Network Controller will scan the LAN for connected C2G products allowing the user to auto-discover, configure and control these products through an Ethernet Web interface.

### Applications

Application is for control of the C2G Audio/Video over IP product line. The Network Controller can be used to implement a virtual matrix, splitter, video wall and other configurations over IP.

### Installation

1. Connect the Ethernet LAN 1 port of the Network Controller to the Ethernet switch and then apply power to the unit (the Ethernet LAN 1 port should be connected before applying power). Turn on the Power Switch. Note that LAN 2 port is configured as a DHCP client and can be utilized for control purpose.
2. The unit will go through a power-up sequence.
3. With the use of a computer and a browser, connect to the Network Controller web page.  
The default IP address is: 192.168.168.50  
The computer will need to be on the same local IP network segment.

If the unit is configured in DHCP mode, then the IP address will be assigned by the DHCP/network server. Check with an IT administrator for available IP addresses.

4. The next and final step is to setup and configure the Network Controller via the controller web interface. In order to accomplish this, navigate to the C2G web site (at [www.cablestogo.com](http://www.cablestogo.com)) and download the 29977 Network Controller for 4K HDMI over IP product manual. The manual will provide the necessary instructions to complete the remaining system setup and configuration.

# Application Diagram



# Troubleshooting

The following table describes some of the symptoms, probable causes and possible solutions in regard to the installation of the C2G Network Controller.

Also, please download and read the latest 29977 Network Controller for 4K HDMI over IP product manual from the C2G web site.

Symptom	Probable Cause	Possible Solution
No power LED	No power to the unit	Verify that the power supply is connected to the unit, and that the AC adaptor is connected to the power source. Also press the Power button ON.
Unable to connect to web page	Bad network cable or wrong IP address	The controller and host computer need to be in the same local IP network to be able to communicate. Also try replacing the network cable with a new one.
Unable to connect to web page	Unknown IP address	Connect a monitor to the controller and check the controller IP address displayed on the monitor for both the LAN 1 and LAN2 ports. The LAN 1 port is the one required for normal operation. Make sure the LAN 1 port is connected to the same network as the AV over IP devices.  If IP address is not shown, then make sure the Ethernet cable is good and properly connected to the LAN 1 port, and then reboot the unit by cycling the AC power.