

Cefent Ethernet Over Coax

User Manual

www.gefentv.com







Technical Support:

Telephone

(818) 772-9100 (800) 545-6900

Fax (818) 772-9120

Technical Support Hours:

8:00 AM to 5:00 PM Monday thru Friday.

Write To:

Gefen Inc. c/o Customer Service 20600 Nordhoff St Chatsworth, CA 91311

www.gefentv.com support@gefentv.com

Notice

Gefen Inc. reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

GefenTV Ethernet Over Coax is a trademark of Gefen Inc.

© 2008 Gefen Inc., All Rights Reserved All trademarks are the property of their respective companies

- 1 Introduction
- 2 Operation Notes
- 3 Features
- 4 Sender Panel Layout
- 5 Sender Panel Descriptions
- 6 Receiver Panel Layout
- 7 Receiver Panel Descriptions
- 8 GefenTV Ethernet Over Coax Software Installation
- 11 Connecting The GefenTV Ethernet Over Coax
- 17 Automatic Security Setup Feature
- 19 Advanced Configuration
- 24 Web Configuration
- 27 Firmware Update Procedure
- 28 Specifications
- 29 Warranty

Congratulations on your purchase of the GefenTV Ethernet Over Coax. Your complete satisfaction is very important to us.

Gefen TV

Gefen TV is a unique product line catering to the growing needs for innovative home theater solutions. We specialize in total integration for your home theater, while also focusing on going above and beyond customer expectations to ensure you get the most from your hardware. We invite you to explore our distinct product line and hope you find your solutions. Don't see what you are looking for here? Please call us so we can better assist you with your particular needs.

The Gefen Ethernet Over Coax

The Gefen TV Ethernet Over Coaxial Sender and Receiver units send RJ-45 Ethernet over RG-59 or RG-6 Coax cable at a distance of up to 300m/1000 feet.

Ideal for legacy installations where Coaxial cable is already permanently in place, these devices breathe new life into remote network extensions where re-wiring is not possible.

How It Works

Connect your existing Ethernet network cables to the Ethernet Over Coaxial Sender unit, then plug in your Coaxial cable to the Coaxial jack on the Sender unit. At the other end of your Coaxial cable run, attach the Ethernet Over Coax Receiver unit and your network cables. Power-cycle your equipment. You will now receive Ethernet network signals at the end of your cable run as if you had cabled the run with Ethernet cables.

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE GEFENTV ETHERNET OVER COAX

- This device passes all 10/100BASE-T Ethernet network protocols (TCP/ IP, NETBUEI, Microsoft Networking, etc.) at speeds of up to 200Mbps (Full duplex fast Ethernet).
- All devices connected to the sending and receiving nodes must be on the same subnet with unique IP addresses to communicate properly.
- Multiple receiving nodes can be used on the same coaxial cable system to extend the network to multiple locations.

Features

- Supports up to 200 Mbps data transmission rate
- Extension of up to 1000 feet (300 meters)
- Web configuration for easy maintenance
- Features include IGMP multicast, VLAN, and QOS packet management
- 3DES 168 bits encryption used for secure operation
- Four RJ-45 Ethernet ports

Package Includes

- (1) GefenTV Ethernet Over Coax sender
- (1) GefenTV Ethernet Over Coax receiver
- (1) 3 foot Ethernet Patch Cable
- (2) Power Adapter Cables



1. Standby Button

Pressing this will put the sending unit in standby mode. The unit will not transfer any information to the receiving unit in this mode. To release standby mode, simply press the button again.

2. Ethernet Input Port

Connects to the Ethernet source (i.e a router, computer, or Internet connection) via a standard network cable.

3. Security/Reset Button

Pressing this button for 2 seconds will activate the Automatic Security Configuration (please see page 17). Pressing this button for more than 10 seconds will perform a factory reset.

4. AC Power Cable Input

Input for the supplied AC power cable.

5. Coaxial Output

Coaxial output to link the sending and receiving units together. This connector will support RG-6 and RG-59 cables.

6. LAN LED

This LED will activate when a connection to a valid Ethernet source is established. It will blink when activity is detected to signify that data is actively being trafficked to and from the receiver.

7. Link LED

This LED will activate once a link has been established between the sending and receiving units. It will blink when activity is detected to signify that data is actively being trafficked.

8. Power LED

This LED will activate once the included power supply is properly connected.



1. Standby Button

Pressing this will put the receiving unit in standby mode. The unit will not transfer any information to the sending unit in this mode. To release standby mode, simply press the button again.

2. Ethernet Input Port (1 through 4)

Connects to an Ethernet device (i.e a computer or gaming system) via a standard network cable. 4 ports are available for 4 separate devices.

3. Security/Reset Button

Pressing this button for 2 seconds will activate the Automatic Security Configuration (please see page 17). Pressing this button for more than 10 seconds will perform a factory reset.

4. AC Power Cable Input

Input for the supplied AC power cable.

5. Coaxial Output

Coaxial output to link the sending and receiving units together. This connector will support RG-6 and RG-59 cables.

6. LAN 1 LED

This LED will activate when a connection from a valid Ethernet device to Ethernet port 1 is established. It will blink when activity is detected to signify that data is actively being trafficked to and from this port.

7. LAN 2 LED

This LED will activate when a connection from a valid Ethernet device to Ethernet port 2 is established. It will blink when activity is detected to signify that data is actively being trafficked to and from this port.

8. LAN 3 LED

This LED will activate when a connection from a valid Ethernet device to Ethernet port 3 is established. It will blink when activity is detected to signify that data is actively being trafficked to and from this port.

9. LAN 4 LED

This LED will activate when a connection from a valid Ethernet device to Ethernet port 4 is established. It will blink when activity is detected to signify that data is actively being trafficked to and from this port.

10. Link LED

This LED will activate once a link has been established between the sending and receiving units. It will blink when activity is detected to signify that data is actively being trafficked to and from the sender.

11. Power LED

This LED will activate once the included power supply is properly connected.

GEFENTV ETHERNET OVER COAX SOFTWARE INSTALLATION

How to Connect the GefenTV Ethernet Over Coax

Installation of the GefenTV Configuration Assistant

- 1. Insert the included installation CD-ROM into your computer that will be used to configure the GefenTV Ethernet Over Coax.
- The auto run will begin the installation process. If auto run does not start or auto run has been disabled, please navigate to "X:\" drive (where X is the drive letter or your CD-ROM drive) and run the "autorun.exe" file.
- 3. Click on the Install Utility option.

🛊 CD Autorun 📃 🗆 🔀
Gefent Ethernet Over Coax
Gereniz Gereniz
Bithermee avair Case #
🕼 Install Utility 🔊 Quick Installation Guide
🟶 Browse CD 🛛 🗕 User Manual Guide 🛛 Exit

4. Choose your preferred language and click on the OK button to continue. (Currently English is the only selectable language)

Installer	Language 🛛 🛛
	Please select a language.
	English
	OK Cancel

5. Close all other applications and press the Next button to continue.



6. Please read the license agreement and click on the I Agree button to continue.

🤒 Gefen TV Ethernet over Coax Setup	
License Agreement Please review the license terms before installing Gefen TV Ethernet over Coax.	
Press Page Down to see the rest of the agreement.	
CACE Technologies WinPcap Professional Software License Agreement	
This WinPcap Professional Software License Agreement ("Agreement") is made as of	
If you accept the terms of the agreement, click I Agree to continue. You must acce agreement to install Gefen TV Ethernet over Coax. Nullsoft Install System v2.35	pt the

GEFENTV ETHERNET OVER COAX SOFTWARE INSTALLATION

 Please choose the program installation destination. The default location is "C:\ Program Files\Gefen TV Ethernet Over Coax". To set your own destination, click on the browse button and navigate to your preferred location. Click the install button to continue.

O Gefen TV Ethernet over Coax Setup	
Choose Install Location Choose the folder in which to install Gefen TV Ethernet over Coax.	
Setup will install Gefen TV Ethernet over Coax in the following folder. To install in a folder, click Browse and select another folder. Click Install to start the installation.	different
Destination Folder Et\Program Files\Gefen TV Ethernet over Coax Browse	
Space required: 5.3MB Space available: 89.6GB	
Nullsoft Install System v2.35	Cancel

8. The program files will copy to the specified location in the previous step. When the process is complete, you will see the window below. Click on the finish button to complete the software installation process.



10

- 1. Connect the source (i.e. computer, router, switch) to the GefenTV Ethernet Over Coax sender unit using the supplied CAT-5e cable.
- Connect the GefenTV Ethernet Over Coax sender unit to a coaxial (RG-59 or RG-6) cable system. Please ensure that the connected coaxial cable system has an available endpoint, either directly or through a coaxial cable splitter.
- Connect the GefenTV Ethernet Over Coax receiver unit to the coaxial cable system.
- Connect the Ethernet devices (i.e. computer, game system, set-top box) to the GefenTV Ethernet Over Coax receiver unit. Up to four devices are supported.
- 5. Connect the included power cables to both the GefenTV Ethernet Over Coax sending and receiving units.

POWER LED: Once the power cable is connected, the Power LED should become active with a solid blue color.

LAN LED: When a valid Ethernet connection is detected on the sending and receiving Ethernet jacks, their corresponding LED's will become active and should emit a solid blue color.

LINK LED: The Link LED should be flashing red on initial boot up. Once a link between the sending and receiving units has been established, it will emit a solid blue color on both units.

IMPORTANT: The Link LED must be emitting a sold blue color before configuration can continue. If this LED continues to flash red on both the sending and receiving units, it is possible that they are not physically connected within the current coaxial cable system. Please confirm that both the sending and receiving units are attached to the same coaxial cable system.

CONFIGURING THE GEFENTV ETHERNET OVER COAX

Once both the sending and receiving units are linked and powered, basic configuration can proceed. This section of the manual refers to the sending unit as the LOCAL NODE, and the receiving unit as the REMOTE NODE.

NOTE: The following steps are for manual configuration of the nodes for a basic secure network. These steps are optional, as the nodes will function with their default settings. However, for security and performance purposes, it is recommended that the following steps be performed. Automatic configuration is also possible using the Automatic Security Configuration feature on page 17 in lieu of the procedure outlined in this section.

- 1. Ensure that both the local and remote nodes are powered and are properly linked.
- 2. Confirm that the computer with the installed GefenTV Ethernet Over Coax software is connected to the local node.
- 3. Start the Gefen TV Config Tool from this location:

Start Menu \ All Programs \ GefenTV Ethernet Over Coax \ Gefen TV Config Tool

4. The introduction screen should appear as the image below. Click on the next button to continue.



5. The program will begin to search for all connected nodes.



12

6. Once all possible nodes have been detected, the program will display all of these nodes as in the window below.

Gefen TV configuration assis	tant						
	Gefen TV co	onfiguratio	n assistant				
Gefen	the assistant be sure these to configure as	detected following nodes are connect nd press "Next" but	nodes in the electric net led and press "Update L ton.	work. If you think mor ist". Once all nodes a	e nodes s re in the lit	hould be sh	nown, e node
5	If you do not n factory values	emember the passy pressing 'Factory	word of the node, you w Reset".	ill have to reset the n	ode with		
11-1-1-		MAC	Net ID	Alias	AP	Quali	ty
1000	ETH connected node	00120E9C7009				ТX	RX
12A	PLC connected nodes	00120E9C7008			AP	159 / 1	161
14T	Advanced						
1-27							
				Updat	e List		
			< Previous	Next >	E×	a	

The local node that the computer is connected to will appear as the "ETH connected node". All remote nodes will be listed as "PLC connected nodes".

NOTE: Both the local and remote nodes must use the same Net ID and encryption passwords for proper operation. These will be configured in the next step. However, it is important to configure the remote nodes first. If the local node is configured first, all remote nodes will become inaccessible and will have to be removed from their locations and physically connected to the computer, where they can be configured to match the local node's settings.

7. To begin configuration, click on the mac address of the remote node (PLC connected node) and then click on the next button.

Gefen TV configuration assis	tant					
	Gefen TV co	onfigurat	ion assistant			
Gefent	The assistant be sure these to configure an If you do not n factory values	detected followi nodes are conn nd press "Next" emember the par s pressing "Facto	ng nodes in the electric r ected and press "Update button. ssword of the node, you ory Reset".	etwork. If you think more List". Once all nodes are will have to reset the nor	nodes s in the lit	hould be shown, it, select the node
11-1-1		MAC	Net ID	Alias	AP	Quality
11/11/	ETH connected node	00120E9C70	89			TX RX
A	PLC connected noder	00120E9C70	08		RP	159 / 161
	Advanced .					
14		2		Update	List	
			< Previous	Next>	Ex	

8.

/	Gefen TV cor	nfiguration assistant
Gefent	This is the curren some parameter,	nt configuration of the PLC node. If you want to modify do it and press "Next" button.
10	PLC Node configur	ation
57	Current firmware	spirit_dw10p_9010 s2_4_6_G_cvs
A	Net ID Encryption key Alias Kind of node New password	End point Access point
	Confirm password	< Previous Next > Exit

The PLC node configuration screen is separated into the following items:

NET ID

This is the name of the network. This name must be the same for both the local and remote nodes for proper operation. The NET ID can be an ASCII string up to 20 characters long.

ENCRYPTION KEY

This is the password needed for network authentication by all nodes. If you wish to set an encryption key, please set the NET ID first. The password can be an ASCII string up to 24 characters long.

ALIAS

This name is for easy identification of the node. This can be an ASCII string of up to 10 characters long. This field is optional.

NEW PASSWORD (CONFIGURATION PASSWORD)

This is to set the configuration password. If a new password is set here, the configuration tool will ask for it every time you access the node. The default password is "paterna". This field is optional.

CONFIRM PASSWORD

The password entered into the new password listing above must also be entered here. This is for confirmation purposes.

Enter the Net ID, encryption key, and alias into the corresponding fields. Once these fields are completed, click on the next button to continue.

9. Once the update is complete, a message will appear to indicate the update was successful. Click on the ok button to continue.



10. Once the update to the remote node is complete, you will be presented with a window that will give the option to either return to the main configuration window or continue with advanced configuration.

Gefen TV configuration assist	ant	
	Gefen TV configuration assistant	
Gefent	Gefentv	
124	Gefen TV Config Tool v2.7.228	
12A	PLC node configuration completed successfully. PLC node is now ready to use.	
1A	Please, press "Next" to keep configurating nodes. Press "Advanced" for advanced operations.	
	Advanced	
	< Previous Next > Exit	

For basic usage, it will not be necessary to continue to the advanced configuration. For advanced options, please see the **ADVANCED CONFIGURATION** section on page 19. To continue with the basic configuration, click on the next button.

11. Once the configuration for the remote node is complete, the local node will then have to be configured. Click on the local node which is labeled as the "ETH connected node" and press next to continue.

iefen T¥ configuration assis	tant Gefen TV co	onfiguratio	on assistant			
Gefen	The assistant be sure these to configure as	detected following nodes are connec nd press "Next" bu	nodes in the electric ted and press "Updat tton.	network. If you think more e List". Once all nodes an	e nodes s e in the li	should be shown st, select the no
5	If you do not n factory values	emember the pass pressing 'Factory	word of the node, you Reset".	will have to reset the no	de with	
11-1-1		MAC	Net ID	Alias	AP	Quality
11/1/	ETH connected node	00120E9C7081	0			TX RX
174	PLC connected nodes	00120ESC 700	-		RP	159 / 161
12th	Advanced					
1177						
				Update	e List	
			< Previous	Next >	E×	à

12. Using the same Net ID and encryption key from the remote node, input the same information into the corresponding fields for the local node. The Alias field should be set to a different name as the remote node for easy identification.

Gefen TV configuration assist	ant	
	Gefen TV cor	nfiguration assistant
Gefent	This is the curren some parameter,	nt configuration of the PLC node. If you want to modify do it and press "Next" button.
1 Contraction	PLC Node configura	ation
5	Current firmware	spirit_dw10p_9010 s2_4_6_G_cvs
11-2-2	Net ID	
11-1-1-	Encryption key	
IT+	Alias	
TT	Kind of node	C End point Access point
1 the	New password	
11-1	Confirm password	
		< Previous Next > Exit

Once the information has been input, click on the next button to continue. A confirmation window will appear once the update is complete. The same window in step 10 will appear with the option to continue with the advanced configuration. It is not necessary to continue with the advanced configuration for basic operation. Click on the next button to return to the main configuration window and exit the configuration tool by clicking on the exit button.

AUTOMATIC SECURITY CONFIGURATION FEATURE

To quickly setup the Gefen TV Ethernet Over Coaxial for secure use, the Automatic Security Configuration Mode (ASCM) can be activated on each node. Follow the below steps to automatically setup a secure connection between multiple nodes.

It is important to understand these concepts before proceeding with the Automatic Security Configuration.

- Master Node (Fixed Access Point) The Master node is the unit that all of the Slave nodes use to copy the Net ID and Encryption Key from. Because all of the nodes on a network need to have the same Net ID and encryption key to operate properly together, there needs to be a single Master node that stores the information that all other Slave nodes will use to properly configure themselves. A Master node is indicated by its Power LED glowing a solid RED color. It is recommended to have only one Master node on the coaxial network.
- Slave Node (Normal) A node in this mode will be indicated by its Power LED glowing a solid Blue color. Multiple Slave nodes can be on the same coaxial network.
- Automatic Security Configuration Mode (ASCM) This mode is initialized by pressing and holding the Security/Reset button on the front panel for approximately 2 seconds. Once the node's Power LED begins flashing RED, release the button. This mode lasts for approximately 30 seconds and will return to normal operation after this time period.
- Both the Master and Slave nodes must be in ASCM for the automatic procedure to complete successfully.
- When a Slave node initializes ASCM, it will first attempt to find a Master node in ASCM. If a Master node in ASCM is not found, it will assume the role of the Master node. To avoid accidentally setting a Slave node as a Master node, make sure that the Master node is in ASCM when activating a Slave's ASCM.
- Any Slave node that assumes the role of a Master node will automatically have a random ASCII Net ID and Encryption Key generated.
- Connect the computer with the installed Gefen TV Config Tool software to the node that you wish to initially set as the Master node.
- If a node is connected to media server or router, it is recommended that this node be set as the Master node for increased performance.

Please refer to the next page for step by step instructions on how to activate the Automatic Security Configuration feature for the Gefen TV Ethernet Over Coax nodes.

- 1. Connect the computer with the installed Gefen TV software to the node you wish to set as the Master node.
- Press and hold the Security/Reset button on the node (ASCM), located on the front panel, for approximately 2 seconds. The Power LED should begin to flash RED, then release the button.
- After approximately 30 seconds, the Power LED should stop flashing and glow solid RED. This indicates that it is now a Master node. If this node was a Slave node (normal node) before this process, it will now have a randomly generated ASCII Net ID and Encryption Key set.
- 4. Open the Gefen TV Config Tool (page 12). There should be a random ASCII value as the Net ID. If you wish to use this Net ID for the other Slave nodes, proceed to step 5. Otherwise, you can now set your own Net ID and encryption password which will be applied to all of the Slave nodes in the next step. To do this, click on the local "ETH connected node" MAC address and press the next button. Change only the Net ID and encryption password fields and click on the next button. Once the local node has been updated, proceed to step 5.
- 5. For this step to complete successfully, both the Master and Slave nodes have to be in ASCM. To do this, press and hold the Security/Reset button on the Master node for approximately 2 seconds. The Power LED should begin flashing RED. Within 30 seconds, press and hold the Security/Reset button on the Slave node(s) for 2 seconds to enter ASCM. The Slave node's Power LED should also begin to flash while it receives the Net ID and Encryption Key information from the Master node. Once the Power LED on both the Master and Slave nodes stop flashing and glow solid, the setup will be complete. Check this by opening the Gefen TV Config Tool and seeing that all nodes have the same Net ID.

NOTE: If the Slave nodes are located at a great distance from the Master node, it is recommended that Step 5 be repeated for each Slave node separately. The window that each device remains in ASCM is only 30 seconds, and it may not be possible to put all Slave nodes in the ASCM within the time frame. It is also possible to temporarily relocate the Slave nodes to a coaxial port closer to the Master node for this configuration process, and then move them to their permanent location after this process is complete. If a Slave node is accidentally set as a Master node, you can hard reset the node by pressing and holding the Security/Reset button for approximately 10 seconds. This will revert the node to a Slave node and reset all internal configurations to factory settings.

There are optional advanced settings that can be configured for each node. The advanced menu can be accessed directly through the main configuration page. Click on the MAC address of the node you wish to configure and click on the advanced button to the left of the node listing.

fen TV co	nfiguratio	n assistant				
The assistant de						
be sure these n to configure and	etected following odes are connec d press "Next" bu	nodes in the electric r led and press "Update tton.	network. If you thin a List". Once all no	k more nodes a des are in the la	hould be st, select t	shown, he node
If you do not ren factory values p	nember the pass pressing 'Factory	word of the node, you Reset".	will have to reset	the node with		
	MAC	Net ID	Alia	AP	Qua	lity
connected node		Geltes TT	Com	beads .	TX	RX
onnected nodes	00120E9C 7001	Lefen TV	Соаж	Recei AP	156 /	155
ovanced						
				Jpdate List		
	to configure and If you do not rer factory values connected nodes udvanced actory Reset	to configure and press "Next" but If you do not remember the passy factory values pressing "Factory connected nodes and the second second second second dvanced	to configure and press "Next" button. If you do not remember the password of the node, you factory values pressing "Factory Reset". Not Not connected node 012/08/C roos Caffen TV dvanced. below Reset	to configure and press "Next" button. If you do not remember the password of the node, you will have to reset factory values pressing "Factory Rest". connected node 00120E9C 70VF CeTex TV Coase dvanced	lo configure and press "Next" button. If you do not remember the password of the node, you will have to reset the node with factory values pressing "Factory Reset". More reset to a state of the node of the node, you will have to reset the node with factory values pressing "Factory Reset". Alias AP Coast Receit. RP dvanced. botow Reset Update List	lo configure and press "Next" button. If you do not remember the password of the node, you will have to reset the node with factory values pressing "Factory Reset". Connected node: e0120E9C-YOUNG Collem. TY Coax Receil. RP 156 / dvanced. botory Reset Update List

<u>GENERAL</u>

NF0 00120E9C7009	General Network Mac Phy Multicast Security Vian QoS QoS Advanced	
10DEL=DW10P_9010	Hardware Reset	
ESSAGE=0	Hardware Reset Factory Reset	1
VER-signit_evrol_93016_2_4_6_6_c+rs MAC_ADOP-M0258C7009 MAC_ADOP_M0258C7009 PMC_ADOP_M0258C7009 PMC_D0PM_054C7000 PC_00F8_0F8-signit_ PC_00F8_0F8-	Firmware Update Upgade Protocol Server IP Address FTP User FTP Password File Name Update Section Firmware Update	>
XG_STATE=Deaded XG_STATE=2 COESS_STATE=DONE	Upgrade Firmware	
UTOCONF_STATE= IUM_BOOTS=2 XTA_TYPE=100 Mbps	Fattware File	
XTA_STATE=Forwarding XTB_TYPE= XTB_STATE= LC_CONNECTION_PORT=9 LC_CONNECTION_MAC_ADDR=00120E9C7	Upgrade Finnsier	
LC_CONNECTION_PHY_TX_XPUT=156 Mbr	Refresh	_

Hardware Reset

This will reboot the node. Settings made in this menu will be applied once the node is restarted.

Factory Reset

This will return the node to factory default settings. A password is required to complete this operation. The default password is "betera". This has the same effect as pressing and holding the Securty/Reset button on the front panel for approximately 10 seconds.

Firmware Update

This section is used to update the node's firmware from a server location. Please see the Firmware Update section on page 27 for full details.

Upgrade Firmware

This section is used to update the node's firmware from a file. Please see the Firmware Update section on page 27 for full details.

<u>NETWORK</u>

INF0 00120E9C7009	General	Network	Mac	Phy	Multicast	Security	Vlan	QoS	QoS Advanced
MODEL-LOWIDP_9010 MESSAGE-0 SYSUPTIME-0 days: 0h 8n 40 VS-Banshid Autor 9010 12, 4, 5, 6, 2, vs MaC, ADDP, 400725 957005 MaC, ADDP, 4055AGE-MAY 404A Please, upc IP_CONFIG_19101NS-DHCP, Fixed IP_CONFIG_19202 IP_CONFIG_19	All chan Notw	nges in nel rork: Coni onliguratio	work cor Figuratic	n [n will have e Fixed	ffect next sy	ystem n	eboot.	×
F_UNTINETED F_UNTINETED PADDN-182: ISS 05:00 Ini FUNAVA-00.00 IP_ADDN_1VPAM-Field IP_ADDN_1VPAM-Field IP_ADDN_1VPAM-62:00 IEMAS_I_VPAM-62:00 ISS 05:00 ISS 0	Fixed IP A Sub Dela	ddress net Mask ault Gatew	liguratio ay IP Ad	n (192 168 2 17 255 255 255 192 168 2 1	9			Update
LC_CONNECTION_PHY_TX_XPUT=156 Mb; LC_CONNECTION_PHY_RX_XPUT=156 Mb;	R	leftesh		-					Exit

IP Configuration

For access to the node's web configuration tool an IP address must be assigned. Options are:

Fixed - Manually assigned IP address DHCP - IP assigned by the networks DHCP server

Fixed IP Configuration

Assign an IP address, subnet mask, and default gateway for web tool access.

Click on the Update button to apply settings made in this tab.

MULTICAST

PLC Node advanced configuration									
INF0 00120E9C7009	General Netv	ork Mac	Phy	Multicast	Security	Vlan	QoS	QoS Advanced	
NFC0 001205527009 A PASSW0RD-Y MODEL_e0W10P_S010 MODEL_e0W10P_S010 A MESSAGE-00 SysUPIME-0 days, 0h 6h 40s VER-spit_e0H05,9010.2, 4, 6, 6, c, vis MAC_A0DR-00126557008 MAC_A0DR-00126557008 MAC_A0DR-00126557008 MODELVESSAGE-Not Valk Please, upc MODELVESSAGE-Not Valk Please, upc MCDINFIG-Find P_A0DR-13251632.178 METMASK-25525550 GATEVAR1-VALMA-132.168.2.179 METMASK_NVRAM-5126.255.255.0 GATEVAR1-VALMA-00.00 METMASK_VRAM-525.168.2.179 METMASK_VRAM-512.168.2.179 METMASK_VRAM-512.168.2.179 METMASK_VRAM-512.168.2.179 METMASK_VRAM-512.168.2.179 METMASK_VRAM-512.168.2.179 METMASK_VRAM-512.168.2.179 METMASK_VRAM-512.168.2.179 METMASK_VRAM-512.168.2.179 METMASK_VRAM-512.168.2.179 METMASK_VRAM-512.168.2.179 METMASK_VRAM-512.168.2.179 METMASK_VRAM-512.168.2.179 METMASK_VRAM-512.168.2.179	General Network Mac Phy Multicast Multicast Configuration IGMP Multicast		Security	Vlan	QoS	QoS Advanced			
Red: STATE-6 Red: TX STATE-0 inabled TXB_STATE-2 inabled AUTOCOM-STATE- AUTOCOM-STATE- NUM-TYPE-1 Mean EXTB_STATE- EXTB_STATE- EXTB_STATE- EXTB_STATE- EXTB_STATE- EXTB_STATE- EXTB_STATE- EXTB_STATE- EXTB_STATE- RC_COMMECTION_FOR_TX_STATE- RC_COMMECTION_FOR_TX_STATE- RC_COMMECTION_FOR_TX_STATE- FXB_STATE- RC_COMMECTION_FOR_TX_STATE-FXB_MAX RC_COMMECTION_FOR_TX_STATE-FXB_MAX RC_COMMECTION_FOR_TX_STATE-FXB_MAX RC_COMMECTION_FOR_TX_STATE-FXB_MAX RC_COMMECTION_FOR_TX_STATE-FXB_MAX RC_COMMECTION_FOR_TX_STATE-FXB_MAX RC_COMMECTION_FXF_FXF_FXF_FXF_FXF_FXF_FXF_FXF_FXF_FX	Refres								Exit

IGMP Multicast

This option will enable or disable the node's ability to transmit IGMP multicast data.

SECURITY

0 00120E9C7009	General Network Mac Phy Multicast Security Vlan QoS QoS Advan	ced
DEL=DW10P_9010	Security Configuration	
UPTIME=0 days, 0h 8m 40s	Configuration Password	
spint_dw10p_9010 s2_4_6_6_cvs ADDR=00120E9C2009	Confirm Password	
ADDR_MESSAGE=Not Valid. Please, upc	Under	atsword
INFIG_OPTIONS=DHCP,Fixed	Encurtion Kan	
DR=192.168.2.179 ASK=255.255.255.0	Caster Francisco Kan	
EWAY=0.0.0	Continii Encippion Key	17.010
DR_NVRAM=192.168.2.179	Updat	te Key
MASK_NVRAM=255.255.255.0 EWAY_NVRAM=0.0.0.0	Network Id	
STATE=Done	Update	NetId
STATE=TS	ATas	
_STATE=6 TX_STATE=Disabled	Milds	
STATE=2	Updat	e Alias
OCONF_STATE=		
B00TS=2		
STATE=Forwarding		
_TYPE= _STATE=		
CONNECTION_PORT='9'		
CONNECTION_PHY_TX_XPUT=156 Mbt		
ONNECTION_PHY_FXXPUT=156 Mbr	Balant	E.4
2		E

The security tab will allow the user to adjust the configuration password, the encryption password, the network ID, and the alias for the node. For a detailed description of each of these options, please see page 14.

VLAN



This option will enable or disable the node's ability to accept VLAN data. If this feature is enabled on one of the nodes, it must be set on all other for VLAN tag packets to pass.

<u>QOS</u>

IF0 00120E9C7009	General	Network.	Mac	Phy	Multicast	Security	Vlan	QoS	QoS Advanced	
ODEL-DW10P_9010 ESSAGE=0	Qua	lity of Se	vice							
SUPTIME-d days, Ch Be Ab; Filepid, Adflo 2010; 24.6, C, evid Repark, Adflo 2010; 24.6, C, evid AC.ADDR MCSSAGE-May Vaid Please, upc COMRIG DETIONS-ONLEY, Fixed CONRIG-Fixed Actions-Onley Fixed CONRIG DETIONS-ONLEY Fixed CONRIG-Fixed Actions-Onley Fixed Constructions Actions-Onley Fixed CONSTATE-10 Actions CONSTATE-00NE <		Rule			No prior	iλy		C	Update	×
LC_CONNECTION_PHY_RX_XPUT=156 Mbt	-		1							

QOS (quality of service) is supported for managing traffic between nodes. The supported protocols are:

- 1. TCP port priority
- 2. UDP port priority
- 3. 802.1p
- 4. TOS (RFC 1122)
- 5. DSCP (RFC 2475)
- 6. No Priority

ADAVANCED QOS

NF0 00120E9C7009	General Network Mac	Phy Multica	st Security Vian	QoS	QoS Advanced	
MODEL=DW10P_9010 MESSAGE=0	Quality of Service					
SYSUPTIME-01 days, 0h 8m 40s (Senspit): dwn/10p, 9010 s2, 4, 6, G, cvs MAC_ADDR-MDS20E9C7003 MAC_ADDR.MESSAGE+NX Valid, Please, upc P_CONFIG_OPTIONS=0HCP_Fixed P_CONFIG=Fixed P_ADDR_192, 158, 2, 179	Rule 1:	Nop	ionization			~
IET MASK-255.255.0 IET MASK-255.255.0 P. CONFIG. NVFAM-Field P. CONFIG. NVFAM-Field IET MASK (NVFAM-85.255.255.0 IST EVAN (INVFAM-85.255.255.0 IST EVAN (INVFAM-85.255.255.0 IST EVAN (INVFAM-85.255.255.0 IST EVAN (INVFAM-85.255.255.0 IST EVAN (INVFAM-85.255.255.0 IST EVAN (INVFAM-85.255.0 IST EVAN (INVFAM-8	Rule 2	Nop	iolization	[Update	•
PLC_CONNECTION_PHY_ROC/PUT-156 Mb; PLC_CONNECTION_PHY_ROC/PUT-156 Mb;	Reliesh					Exit

QOS (quality of service) prioritization. Rule 1 will be applied to all packets first and then Rule 2. Prioritization protocols are:

- 1. UDP is high priority, TCP is low priority
- 2. TCP is high priority, UDP is low priority
- 3. UDP port XXXX is high priority, the rest is low priority
- 4. UDP port XXXX is low priority, the rest is high priority
- 5. TCP port XXXX is high priority, the rest is low priority
- 6. TCP port XXXX is low priority, the rest is high priority
- 7. Use 802.1p prioritization
- 8. No prioritization

If an IP address has been set in the **ADVANCE CONFIGURATION PANEL**, access to the **WEB UTILITY** will be enabled. To access the **WEB UTILITY**, open your web browser and type the ip address into the address field. The IP address is dependent on the IP Configuration Setting assigned on page 20. The IP address can either be assigned by the DHCP server or a static IP address can be manually assigned.

AUTHENTICATION

The browser should open the authentication page displayed below.

@ DW109_9010 Web Coaliguration - Authenry	tication - Microsoft Internet Explaner provided by Geten, Inc.		
G + (# Http:(1102.108.2.178)		🖉 🕶 😽 and the fi	P +
👻 🔌 📲 DW 197-3011 Web Canfiguration - Author	récular	9 • 10 · 0 • 00	lege + () 1gek + "
Gefen	DW10P_9010 Web Configuration		
	Authesticatios		
	This unit is paraward protected. Please enter the correct paraword to access the web pages		
	Ok Cascel		
	Factory Reset*:		
	Password Warning? Current configuration will be lost		
	Ok Cancel		
Dane		a Starat	4,100% +

Authentication

To enter the **WEB UTILITY**, enter the configuration password. The default password is "paterna" unless modified during the setup stage on page 14.

Factory Reset

The unit can be reset to factory settings from this menu. Enter the factory reset password. The default password is "betera".

MAIN PAGE

							100000000
						M Fr (X) and hard	IR!
🕯 🏟 🖉 (1993) 9, Kiti Web Configuration - Menihege	100					8·0 0·5	Enge + () lipsk + *
Gefen 🐼 🛛	W10P_9010 Web C	onfiguration					
A	uilable Connections						
int Int	C Consections C Post MAC Address	Phy Ta Throughput	Phy Ra Throughput	Bridge State 7	Fetroark, M		
Đ	tenal laterfaces Interface ESTA	Phy The 100 h	nghai days	Bridge S Formad	Hate ling		
b Q	rtat information must configuration						
G	eneral Information						
M M	AC Type AC Address Address	In How 001208303	e AV Node Typ 1008 Net Vald 3 2.178 Number o	e Snaat, updete it. ('Boots	12		
51 Au	INC GC RX	Em	Deve MODE		5		
A	ocess Protocol	D	ONE .				
To D	rther information						
	upper configuration						

The main page will display general configuration information. Clicking on the further information link will navigate to a new page with all the current configuration information (see page 26). Clicking on the change configuration link will navigate to a new page where all configuration options will be available for adjustment (see below).

WEB CONFIGURATION

@ DW109_9010 Web Configuration - Change (Configuration - Microsoft Internet Explorer provided by Gelen, in	B	
		■ ## # acctive fill](#[+]
🛊 🔗 📲 DW10P_2018 Web Carliguetion - Change	Configurat	⊜ •⊡•⊕•⊡•	epe + 🔘 Tgole + 🤎
Gefen	DW10P_9010 Web Configuration		*
	MAC Configuration		
	In-Home AV Configuration •Node Type	EP Cancel	
	Network Identifier Gefen TV		
	+Encryption Key ASCI 🔮 gefents	Ok Cancel	
	Return to main page		
20		🧑 😝 triornet.	R_100% +

This page will allow the user to adjust all options that are available just as in the **ADVANCED CONFIGURATION PANEL** in the **GEFENTV CONFIG TOOL**.

The configuration options are as follows:

MAC Configuration Network Configuration Multicast Configuration VLAN Configuration Priority Configuration (QOS) Security Configuration Hardware Reset Flash Upgrade

Please refer to the **ADVANCED CONFIGURATION** section, starting on page 19, for information on the above categories. Going back to the main page can be done by clicking on any of the <u>Return to main page</u> links.

FURTHER INFORMATION

5 DW109_9010 Web Coefiguration - Ferther	Information - Wicceselt Internet Explore	r provident by Geten . Inc.	
- E Happill 92.106.2.17984/s.Haw		M He X at set	k ji e ik
🐑 • 😭 🔗 🖉 DW392,9033 Web Configuration - Putther	Information	9.0	🖶 • 🔂 Base • 🔘 Taole • '
Gefen	DW10P_9010 Web Configurat	ion	
	System Information		
	Uptime Firmware Version	0 days, 10x 34m 35s spikit_dw10g_0010 s2_4_6_6_cvvs	
	Rettern 50 main page		
	MAC Status		
	MAC Address	00120EBC7008	
	MAC Type Node Type	In-Hense AV EP	
	Network Identifier Encryption Key (ASCII)	Orfm TV galaxiv	
	Return to main page		
		a 😝 Internet.	\$100% +

This page will display all of the information and status of the current node. The following sections are listed:

System Information MAC Status Network Status PHY Status Multicast Status VLAN Status Priority Status Security Status

Information on this page is not configurable. If you wish to make adjustments to any of these categories, return to the main menu by clicking on any of the <u>Return</u> <u>to main page</u> links on the page. Then click on the <u>Change configuration</u> link which is also available on the main page.

The firmware for the GefenTV Ethernet Over Coax can be updated by FTP, TFTP, or a direct file. The firmware update can be executed from either the **ADVANCED CONFIGURATION PANEL**, or the **WEB UTILITY**.

UPDATE VIA THE ADVANCED CONFIGURATION PANEL

Firmware updates can be accomplished from the General tab in the **ADVANCED CONFIGURATION PANEL**. See page 19 for instructions on how to enter the **ADVANCED CONFIGURATION PANEL**.

PLC Node advanced configuration		
BPG 50 2528/2020 Λ BPG 50 2528/2020 Λ MSSW PD/M Sep00 MSW PD/M Sep00 <td>General Maximum Max Pay Hutle Hadware Reset Hadware Reset Hadware Reset Firmware Update Ungate Protocol Server P-Advers FIP Use FIP Use FIP Parenol Update Section</td> <td>Factory Reset Factory Reset Fa</td>	General Maximum Max Pay Hutle Hadware Reset Hadware Reset Hadware Reset Firmware Update Ungate Protocol Server P-Advers FIP Use FIP Use FIP Parenol Update Section	Factory Reset Fa
ACCESS STATE-ODNE AUTOCOMP-STATE- NUM DOOTS-2 DETA_TYPE-T00 Map DETA_STATE-Forwarding DETA_STATE-Forwarding DETB_TYPE- DETB_STATE- PLC_CONNECTION_PORT-9 PLC_CONNECTION_PORT-9 PLC_CONNECTION_PORT-9 PLC_CONNECTION_PORT-95 Mis	Upgrade Finnware	Upgrade Fernicans
PLC_CONNECTION_PHY_RX_XPLIT+156 Mbx v	Rehesh	Exit

Upgrade Via FTP or TFTP

- 1. Select the update protocol. Either FTP or TFTP
- 2. Enter the server IP address
- 3. Enter the user name and password
- 4. Enter the name of the file (if the file is not in the root directory of the TFTP or FTP directory, you have to write the whole route from root server directory)
- 5. Select which section you would like to update (Firmware, Loader or Factory Settings)
- 6. Click on the firmware update button

Upgrade Via File

- 1. Use the browse button to the right of the firmware file window and select the firmware update file. You can also manually type the full path to the firmware file
- 2. Click on the upgrade firmware button

NOTE: This procedure is the same using the web utility. The web update section is located in the change configuration settings, which is accessible from the main page.

SPECIFICATIONS

Standard Support	UPA DHS (200 Mbps) PLC
Interface One Power Line port / C	One coaxial port / 4 Ethernet 10/100M Ports
Security	3DES 168 bits encryption
Power	AC 100~240V / 50~60Hz / 0.15A
Power Consumption	8W/230V Max & 7W/110V Max
Operating Temp	0~40°C (32~104°F)
Operating Humidity	10%~90% non-condensing
Storage Temp Range	20~70°C (-4~158°F)
Storage Humidity	5%~95% non-condensing
Storage Altitude	Sea level to 40,000 feet
Certifications	FCC Part 15, Part B, Class B, CE Class B

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com