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FUERAN DP-MNQ001

FUERAN DisplayPort Display Emulator EDID Dummy Plug User Manual

Model: DP-MNQ001

1. Introduction

The FUERAN DisplayPort Display Emulator EDID Dummy Plug (Model DP-MNQ001) is a compact device designed to emulate a connected display. This is particularly useful for 'headless' computer setups, such as servers, GPU mining rigs, or remote desktop access systems, where a physical monitor is not present but the system requires a display to be detected for proper GPU functionality and resolution management. It ensures that your system's graphics card remains active, allowing for high-resolution remote access and optimal performance.



Figure 1: FUERAN DisplayPort Display Emulator EDID Dummy Plug.

2. Key Features

- Supports various resolutions from 800x600 up to 2560x1600@30Hz.
- Enables headless operation for Mac, Windows, and Linux systems.
- Ultra-compact, low-profile design.
- Plug-and-play functionality; no drivers, configuration, or external power required.
- Emulates a high-resolution display to keep the GPU active.

3. Setup Instructions

Setting up the FUERAN DisplayPort Display Emulator is straightforward due to its plug-and-play design.

1. **Identify the DisplayPort:** Locate an available DisplayPort on your computer's graphics card.
2. **Insert the Dummy Plug:** Gently insert the FUERAN DisplayPort Display Emulator into the DisplayPort. Ensure it is fully seated.
3. **System Detection:** Your operating system (Mac, Windows, Linux) should automatically detect the presence of a connected display. No additional drivers or software installation is typically required.

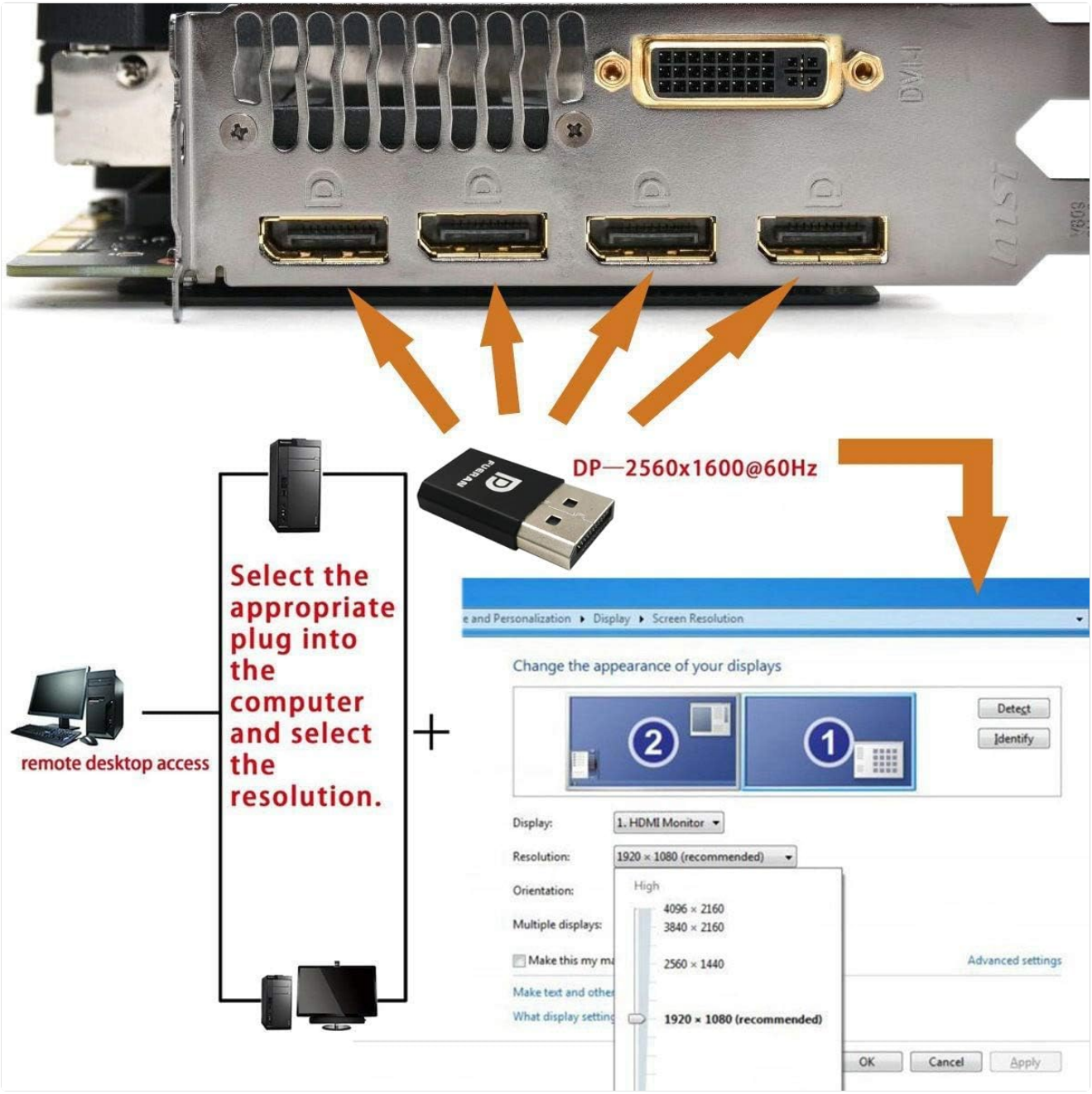


Figure 2: Connect the DisplayPort dummy plug to an available DisplayPort on your computer's graphics card.

4. Operating the Device

Once connected, the DisplayPort Display Emulator functions by providing Extended Display Identification Data (EDID) to your computer's graphics card. This tricks the system into believing a monitor is attached, thus keeping the GPU active and allowing for various display resolutions to be maintained, even without a physical screen.

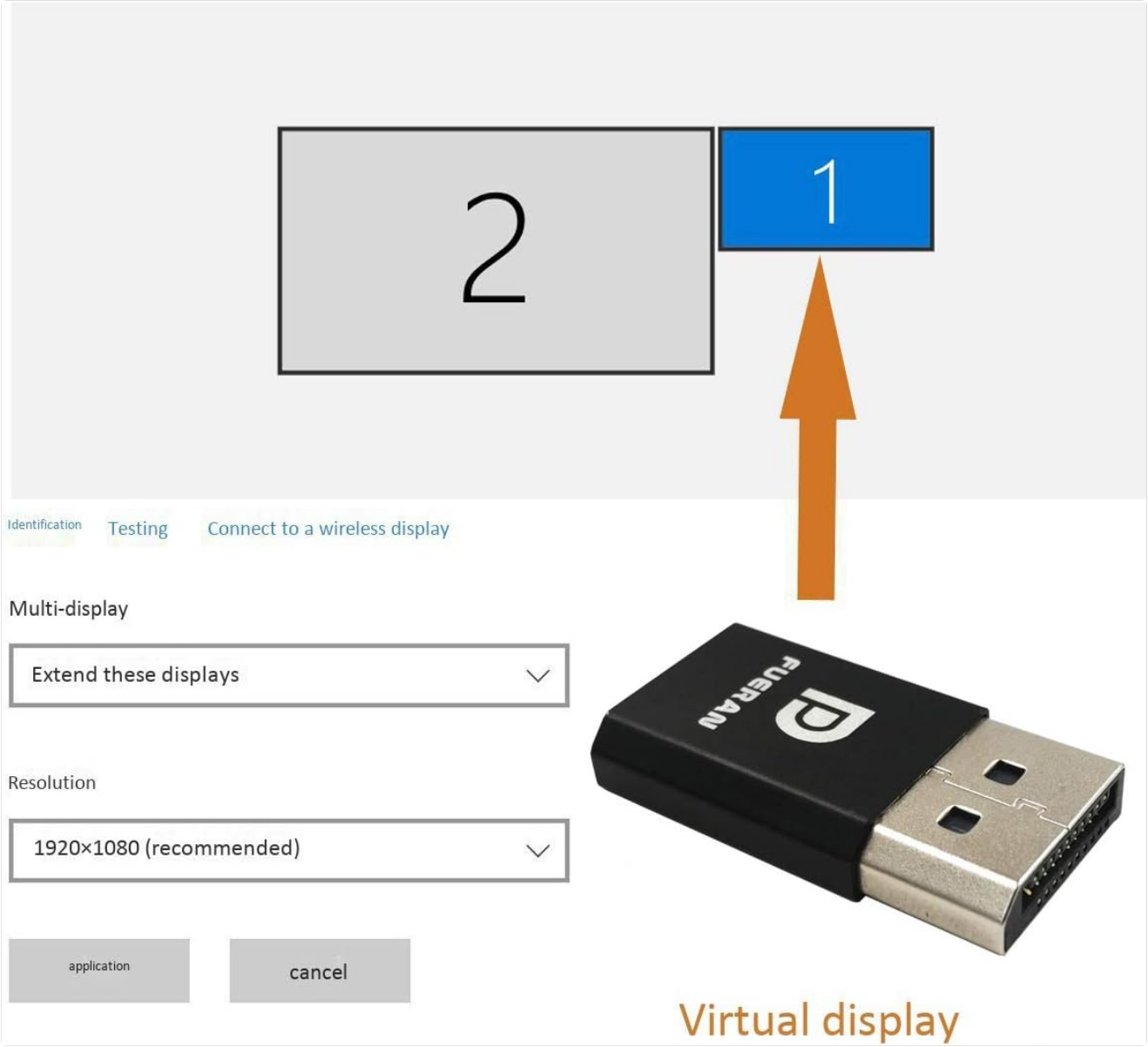


Figure 3: Operating system display settings will show a virtual display, allowing resolution adjustments.

4.1. Supported Resolutions

The emulator supports a range of resolutions, ensuring flexibility for various applications. The maximum supported resolution for this model is 2560x1600 at 30Hz.



Resolution	HDMI 2.0(2K)	HDMI 2K(HDR)	HDMI 2.0(4K)	HDMI2K(HDR)	HD M I 2.1 (4K)	HDMI(8K)	DP(2K)	NEWDP(4K)	mini DP	DVI	VGA	type-c
7680*4320						17/20Hz						
4096*2160	23/25/29/30	30/50/59/60Hz	30/50/59/60Hz	30/50/59/60Hz				30/50/59/60Hz				
3840*2160		30/50/59/60Hz	30/50/59/60Hz	30/50/59/60Hz	60/120Hz	17Hz	17Hz	30/50/59/60Hz	17Hz			
2880*1800	30Hz		30Hz					30Hz				
2560*1600	60Hz	59/60Hz	60Hz	59/60Hz	60/120Hz		30Hz	60Hz	30Hz	30Hz		
2560*1440	30/59/60Hz	59/60Hz	59/60Hz	59/60Hz	60/120Hz		30Hz	60Hz	30Hz	30Hz		
2048*1536	60Hz	30/50/59/60Hz	60Hz	30/50/60Hz			30Hz	60Hz	30Hz	30Hz		
1920*1440	59/60Hz	30/50/59/60Hz	59/60Hz	30/50/59/60Hz			30Hz	60Hz	30Hz	30Hz		
1920*1200	60Hz	30/50/59/60Hz	60Hz	30/50/59/60Hz	60/120Hz		30Hz	60Hz	30Hz	59/60Hz		
Default Resolution 1920*1080	29/50/59/60	30/50/59/60Hz	60/119/ 120Hz	30/50/59/60Hz	60/120Hz	60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1800*1440								60Hz				
1792*1344								60Hz				
1680*1050	60/119/120Hz	30/50/59/60Hz	60/119/120Hz	30/50/59/60Hz	60/120Hz	60Hz	59/60Hz	60/119/120Hz	60Hz	59/60Hz	59/60Hz	59/60Hz
1600*1200	60Hz	30/50/59/60Hz	60Hz	50/59/60Hz			30Hz	60Hz	30Hz	59/60Hz	59/60Hz	59/60Hz
1600*1024	59/60Hz	30/50/59/60Hz	60/119/120Hz	50/59/60Hz		60Hz	59/60Hz		59/60Hz	59/60Hz	59/60Hz	59/60Hz
1600*900	60/119/120Hz	30/50/59/60Hz	60/119/120Hz	30/50/59/60Hz	60/120Hz	60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1440*900	60Hz	30/50/59/60Hz	60/119/120Hz	50/59/60Hz	60/120Hz	60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1366*768	60Hz	30/50/59/60Hz	60/119/120Hz	30/50/59/60Hz	60/120Hz	60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1360*1024								60/119/120Hz				
1360*768	60Hz	60Hz	60/119/120Hz	60Hz	60/120Hz	60Hz	60Hz	60/119/120Hz	60Hz	60Hz		60Hz
1280*1024	60/75Hz	60Hz	60/119/120Hz	60Hz	60/120Hz	60Hz	60/75Hz	60/119/120Hz	60Hz	60/75Hz	60/75Hz	60/75Hz
1280*960	60/75Hz	60Hz	60/119/120Hz	60Hz		60Hz	60/75Hz	60/119/120Hz	60Hz	60/75Hz	60/75Hz	60/75Hz
1280*800	60Hz	60Hz	60/119/120Hz	60Hz	60/120Hz	60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1280*768	60Hz	600Hz	60/119/120Hz	60Hz		60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1280*720	50/59/60Hz	60Hz	60/119/120Hz	60Hz		60Hz	60Hz	60/119/120Hz	60Hz	60Hz	60Hz	60Hz
1176*664	50/60	60Hz	50/60	60Hz								
1152*648	60Hz	60Hz	60/119/120Hz	60Hz		60Hz	75Hz	50/59/60Hz	75Hz	60/75Hz	75Hz	
1024*768	60/70/75Hz	60Hz	60/119/120Hz	60Hz		60Hz	60/70/75Hz	60/119/120Hz	60/70/75Hz	60/70/75Hz	60/75Hz	60/75Hz
800*600	56/60/75Hz	60Hz	60/119/120Hz	60Hz		60Hz	56/60/72/75Hz	60/119/120Hz	60/72/75Hz	56/60/72/75Hz	56/60/72/75Hz	60/75Hz
720*576	50Hz	59Hz	59/119/120Hz	50Hz			56/60/72/75Hz	60/119/120Hz	56/60//75Hz	56/60/72/75Hz	56/60/72/75Hz	
720*480	59/60Hz	59/60Hz	60/119/120Hz	59/60Hz		60Hz	56/60/72/75Hz	60/119/120Hz	56/60//75Hz	56/60/72/75Hz	60/72/75Hz	60/75Hz
640*480	59/60Hz	60Hz	60/119/120Hz	60Hz		60Hz	60/72/75Hz	60/119/120Hz	60//75Hz	60/72/75Hz	60/75Hz	60Hz

Figure 4: Detailed table of supported resolutions and refresh rates for DisplayPort and other FUERAN dummy plugs.

4.2. Video Guide

Video 1: This official FUERAN video demonstrates the functionality of various dummy plugs, including DisplayPort, and how they enable headless display emulation for different resolutions. It provides a visual guide on how these devices can be used to maintain GPU activity and manage display settings in a headless setup.

5. Maintenance

The FUERAN DisplayPort Display Emulator is a passive device and requires minimal maintenance.

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures or moisture.
- Store in a safe place when not in use to prevent physical damage to the connector pins.

6. Troubleshooting

- **No Display Detected:** Ensure the dummy plug is fully inserted into the DisplayPort. Try restarting your computer. Verify your graphics card drivers are up to date.
- **Incorrect Resolution:** If the desired resolution is not automatically detected, you may need to manually set a custom resolution in your operating system's display settings. For NVIDIA users, this can often be done through the NVIDIA Control Panel by creating a custom resolution (e.g., 3840x2160 / 60Hz) and ensuring 'Enable resolutions not exposed by the display' is checked.
- **Intermittent Connection:** Check for any physical damage to the dummy plug or the DisplayPort on your device. Ensure the port is clean.
- **System Performance Issues:** While the emulator helps maintain GPU activity, ensure your system's

hardware (GPU, CPU, RAM) meets the requirements for the tasks you are performing (e.g., game streaming, rendering).

7. Technical Specifications

Feature	Detail
Brand	FUERAN
Model Number	DP-MNQ001
Connector Type	DisplayPort
Color	2K-2560x1600@30Hz
Compatible Devices	Laptop, Monitor, Projector (for emulation purposes)
Item Dimensions (L x W x H)	1 x 1 x 1 inches
Item Weight	1 Grams
Number of Ports	1
Power Plug Type	No Plug (passive device)

8. Warranty Information

This FUERAN product comes with a 12-month limited warranty from the date of purchase. The warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

9. Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact FUERAN customer support through the retailer's platform or visit the official FUERAN website for contact information. Please have your product model number (DP-MNQ001) and proof of purchase ready when contacting support.

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Details

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