GTEX4 Gate Signal Expander

Version 1.0
User Manual

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1. Introduction

Thank you for choosing the **GTEX4 Gate Signal Expander**. This compact utility module distributes a single gate or trigger signal to up to **four simultaneous outputs**, with **buffered outputs** for optimal signal integrity. Ideal for clock splitting, multi-triggering, and rhythm synchronization across your modular system.

2. Safety Information

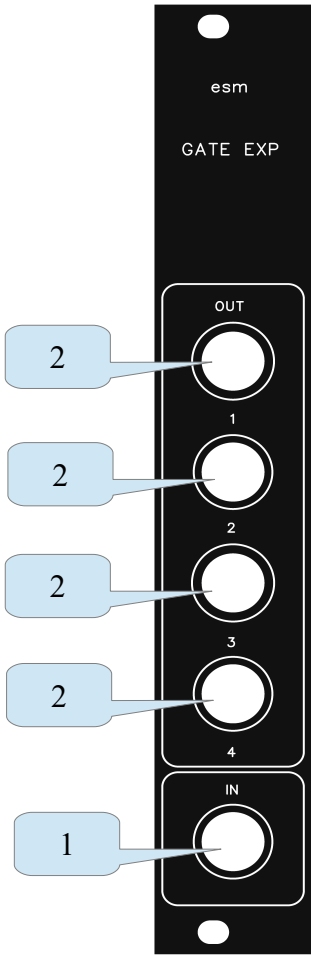
- Always power off your Eurorack system before installing or removing the module.
- Connect the power cable with correct polarity (red stripe to –12V).
- Do not expose the module to moisture, extreme heat, or physical abuse.
- Keep out of reach of children.

3. Package Contents

- GTEX4 Module
- Eurorack Power Cable (10–16 pin IDC)
- Mounting Screws
- User Manual

If anything is missing or damaged, contact us immediately.

4. Device Overview



Front Panel

- **1-Gate In**
  Receives a single gate or trigger signal from a sequencer, controller, or other source.
- **2-Gate Out 1–4**
  Buffered outputs that replicate the incoming gate signal. Each output maintains high signal integrity, ideal for complex or long patch setups.

✓**Buffered Outputs**
Unlike passive splitters, GTEX4 actively buffers each output. This ensures strong, clean signals even when driving multiple destinations or long cables.

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5. Setup Instructions

Installation:

1. Power off your Eurorack case.

2. Connect the included ribbon cable to the rear power header of the GTEX4.
    - **IMPORTANT:** Red stripe aligns with the **–12V** marking on both the module and the bus board.
3. Mount the module using the provided screws.
4. Power on your system — the module is now ready for use.

6. Operating Instructions

Using GTEX4 is simple:

1. **Connect** a gate or trigger signal to the **Gate In** jack.
2. **Patch** one or more of the **Gate Out 1–4** jacks into modules you wish to control.
    - These may include envelope generators, drum modules, sequencers, etc.
3. The input gate is replicated and distributed to all outputs **simultaneously and with stable voltage levels.**

7. Application Examples

- **Trigger Multiple Envelopes**: Send a single gate to GTEX4 and use each output to trigger separate envelopes.
- **Sync Multiple Sequencers**: Clock several sequencers or modules from one source.
- **Drum Machine Expansion**: Send one gate to fire four percussive voices at once.
- **Transport Syncing**: Distribute a start/stop gate signal across multiple modules for tight sync.

8. Maintenance and Cleaning

- Wipe the front panel gently with a dry cloth.
- Do not use liquids, solvents, or abrasive cleaning products.
- Periodically check connections and cables for wear or dust buildup.
- Store in a dry environment when not in use.

9. Troubleshooting

Problem	Possible Cause	Solution
No output	Missing or faulty input signal	Confirm a valid gate is sent into Gate In
Only some outputs respond	Faulty cables or patch jacks	Try different cables or outputs
Output levels weak or unstable	Power not connected properly	Verify power ribbon orientation and seat
Module unresponsive	Incorrect ribbon cable connection	Ensure red stripe matches –12V on both ends

10. Technical Specifications

- **Function**: 1 Gate In →4 Buffered Gate Outs
- **Input Impedance**: >100kΩ
- **Output Voltage**: Mirrors input, typically 0–5V
- **Signal Type**: Gate, Trigger
- **Power Requirements**:
    - +12V: 10mA
    - –12V: 0mA
- **Width**: 4HP
- **Depth**: 25mm

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11. Warranty and Support

Visit our site www.eurosoundmodules.com