TRAFFIC JAM

HARDWARE GUIDE
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This TrafficJam Hardware Guide describes the physical hardware of the TrafficJam traffic generator. The companion User’s Guide describes the installation, configuration, and operation of the TrafficJam functionality. A separate Quick Start Guide provides a walk-through for first time configuration.

The TrafficJam contains no user serviceable parts. Opening the chassis voids the warranty. If you believe your unit is not functioning properly, see Section 5 for information on obtaining support.
2 INCLUDED ITEMS

The TrafficJam shipping carton contains the following items:

- TrafficJam hardware unit
- TrafficJam Quick Start Guide
- AC power adaptor
- RS-232 DB-9 serial cable
3 FRONT AND REAR PANELS

3.1 Front Panel

The front panel of the TrafficJam contains:

**Power LED**: Lit green when the unit is powered on. Unlit when power is off.
3.2 Rear Panel

The rear panel of the TrafficJam contains:

**CONSOLE:** Console interface using RS-232 with a DB-9 connector.

**MGMT:** 10/100/1000baseT Ethernet interface with a standard RJ-45 plug for browser-based management of the unit over the network.

**LAN A:** 10/100/1000baseT Ethernet interface with a standard RJ-45 plug. Connects to the network segment functioning as LAN A in network emulations.

**LAN B:** 10/100/1000baseT Ethernet interface with a standard RJ-45 plug. Connects to the network segment functioning as LAN B in network emulations.

**Power input:** 12V DC power, 2.5 mm center positive input.
Console access to the TrafficJam is through the RS-232 interface on the rear panel labeled “CONSOLE.” A DB-9 cable is included with the unit to connect the device to a standard PC serial port. The pin-out for the DB-9 connector is shown below:

![DB-9 connector diagram]

<table>
<thead>
<tr>
<th>Pin</th>
<th>Definition</th>
<th>Pin</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DCD</td>
<td>6</td>
<td>DSR</td>
</tr>
<tr>
<td>2</td>
<td>RxD</td>
<td>7</td>
<td>RTS</td>
</tr>
<tr>
<td>3</td>
<td>TxD</td>
<td>8</td>
<td>CTS</td>
</tr>
<tr>
<td>4</td>
<td>DTR</td>
<td>9</td>
<td>RI</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

To connect to the console, use a terminal or a computer running terminal emulation software, and set the following parameters:

- 9600 baud
- 8 data bits
- No parity
- 1 stop bit
- Disable flow control
Purchase of the TrafficJam includes a 1 year warranty on the hardware, 1 year maintenance, and 90 days of customer support.

If you believe your unit is not functioning properly and is under warranty, please upgrade to the latest firmware release. If the problem persists, please contact Apposite Support at:

  support@apposite-tech.com
  1.310.477.9955 ext. 2

When contacting Apposite Support, please include the following information:

- Serial number
- Your e-mail address and phone number
- Installed firmware version
- A detailed description of the problem

⚠️ Do not attempt to fix any hardware problem yourself. The TrafficJam contains no user serviceable parts. Opening the chassis voids the warranty.
### Capacity

<table>
<thead>
<tr>
<th>Test Ports</th>
<th>2x Gig Ethernet (copper)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Agg. Throughput</td>
<td>2 Gbps</td>
</tr>
<tr>
<td>Maximum Packet Rate</td>
<td>350,000 packets per second with 64 bytes</td>
</tr>
<tr>
<td>Maximum Frame Size</td>
<td>9KB</td>
</tr>
</tbody>
</table>

### Interfaces

<table>
<thead>
<tr>
<th>Network</th>
<th>2 x 10/100/1000baseT Ethernet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management</td>
<td>1 x 10/100/1000baseT Ethernet</td>
</tr>
<tr>
<td>Console</td>
<td>1 x RS-232</td>
</tr>
<tr>
<td>Security</td>
<td>SSH, no SSL. Password Protected</td>
</tr>
</tbody>
</table>

### Environmental and Physical

<table>
<thead>
<tr>
<th>DC Input</th>
<th>12V DC Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Input</td>
<td>100 – 240 VAC, 50 – 60 Hz with supplied AC power adaptor</td>
</tr>
<tr>
<td>Power Draw</td>
<td>9 Watts</td>
</tr>
<tr>
<td>Dimensions</td>
<td>6.6&quot; W x 6.2&quot; D x 1.2&quot; H; 168 mm W x 157 mm D x 30 mm H</td>
</tr>
<tr>
<td>Weight</td>
<td>1.1 lbs (0.5 kg)</td>
</tr>
<tr>
<td>Temperature</td>
<td>32° to 104°F (0° to 40°C)</td>
</tr>
<tr>
<td>Certifications</td>
<td>FCC, CE, RoHS</td>
</tr>
</tbody>
</table>

### Warranty & Support

<table>
<thead>
<tr>
<th>Hardware Warranty</th>
<th>1 year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance</td>
<td>1 year</td>
</tr>
<tr>
<td>Support</td>
<td>90 Days</td>
</tr>
</tbody>
</table>

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>TJ1G</th>
</tr>
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Federal Communications Commission Notice

This equipment has been tested and verified to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the user will be required to take whatever measures may be required to correct the interference at their own expense.

Canadian Notice / Avis Canadien

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

CE Certification

The product described in this manual complies with all applicable European Union (CE) directives, including EU Directive 2002/95/EC Restriction of Hazardous Substances (RoHS).
The Apposite Technologies LLC ("Apposite") TrafficJam product includes the TrafficJam hardware ("Hardware"), software embedded in the Hardware ("Software"), including any upgrades, modified versions, updates, additions and copies of the Software, and related explanatory materials ("Documentation"). Collectively, the Hardware, Software, and Documentation are the "Product."

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Apposite warrants that for a period of one (1) year from the date of shipment of the Hardware to you ("Warranty Period"), the Hardware will be free of any defects in materials and workmanship under normal use and the Software will perform substantially in accordance with the Documentation. This limited warranty extends only to the original user of the Product. This limited warranty is void if failure of the Hardware or Software to conform to the warranty...
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