

# Valid8

## M- Series



Valid8's M-series includes a variety of form factors to host our wireless-focused test applications. Depending on the test type and usage environment, the tool can be provided as software only or pre-installed on the following hardware:

### M1

- The M1 is our most compact form-factor, measuring just 4"x4"x2", and comes pre-installed with the Valid8 Protocol Engine
- Ideal for situations where portability is needed, or where dedicated hardware with low traffic generation is needed



### M2

- The M2 includes a COTS (Commercial off-the-shelf) server pre-installed with the Valid8 Protocol Engine
- Ideal for Load testing or other intensive computing scenarios. Can be configured in an array of multiple machines, enabling scalable load testing



### M3

- The M3 includes our highly-customizable Mobile Test Network form factor pre-installed with the Valid8 Protocol Engine
- Ideal for conformance and feature testing, viewing traffic over exposed interfaces, and 3G/4G air interface testing in an integrated unit



### Software Only

M1 and M2 also available as software only



Available	M1 (NUC)	M2 (COTS server)	M3 (Custom hardware)	Notes
4G Conformance Tests (each sold separately) <ul style="list-style-type: none"> <li>• S1</li> <li>• S3</li> <li>• S4</li> <li>• S5</li> <li>• S6a</li> <li>• S8</li> <li>• S11</li> <li>• Gx</li> <li>• Rx</li> </ul>	Y	Y	Y	
4G Network Emulators (each sold separately) <ul style="list-style-type: none"> <li>• eNB Emulator</li> <li>• MME Emulator</li> <li>• SGW Emulator</li> <li>• PGW Emulator</li> <li>• OCS Emulator</li> <li>• HSS Emulator</li> <li>• PCRF Emulator</li> <li>• ePDG Emulator</li> <li>• Load: 10/100/1000/10000</li> </ul>	Y (10 calls max)	Y	Y	
3G Conformance Tests (each sold separately) <ul style="list-style-type: none"> <li>• Iuh</li> <li>• IuCS</li> <li>• IuPS</li> <li>• Gn</li> <li>• Gi</li> </ul>	Y	Y	Y	*Available 4Q 2015
3G Network Emulators (each sold separately) <ul style="list-style-type: none"> <li>• HNB Emulator</li> <li>• HNB-GW Emulator</li> <li>• SGSN Emulator</li> <li>• GGSN Emulator</li> <li>• MSC Emulator</li> <li>• HSS Emulator</li> <li>• Load: 10/100/1000/10000</li> </ul>	Y (10 calls max)	Y	Y	
3G/4G UE Emulator	N	N	Y	*Software only not available
Simulated eNB option (included)	Y	Y	Y	
Integrated femto eNB (hardware option)	N	N	Y	*Software only not available
External femto/pico eNB (hardware option)	N	Y	Y	
Pipe external traffic to simulated base station	N	Y	Y	

■ All items available on M1 and M2 as software only unless otherwise noted