

PRODUCT SPECIFICATIONS

| Feature Description | Model 1 | Model 5 | Model 10 | Model 20 | Model X2 |
|---|---------------------|----------------------|----------------------|----------------------|--------------------------------------|
| Platform | | | | | |
| Desktop Hardware Appliance | Virtual Only | ✓ | ✓ | ✓ | - |
| Half Rack Hardware Appliance | - | - | - | - | ✓ |
| Virtual Appliance -Certified VMware-Ready -OpenStack KVM | ✓ | ✓ | ✓ | ✓ | ✓ |
| Number of Licenced Emulation Ports | 2 | 2 | 2 | 4 | 4 (2 x 10G SFP+, 2 x 1G RJ45 Copper) |
| Maximum Link Speed (Bandwidth) / Packet Rate | 50 Mbps / (3 Mpps)* | 100 Mbps / (3 Mpps)* | 200 Mbps / (3 Mpps)* | 1 Gbps / (5.5 Mpps)* | 10 Gbps / (44 Mpps) |
| BMC / IPMI Management Port | - | - | - | - | ✓ |
| UID Identifier Button | - | - | - | - | ✓ |
| Network Links | | | | | |
| Link Type: LAN, WAN, Wi-Fi, (A)DSL, 2G, 3G, 4G/LTE, 5G, Satellite, Custom | ✓ | ✓ | ✓ | ✓ | ✓ |
| Point-to-Point | ✓ | ✓ | ✓ | ✓ | ✓ |
| Dual hop (Single or Multi Link) | - | ✓ | ✓ | ✓ | ✓ |
| Multi-Link | - | ✓ | ✓ | ✓ | ✓ |
| Maximum Links | 1 | 5 | 10 | 20 | 20 |
| Link Congestion to mimic busy networks | ✓ | ✓ | ✓ | ✓ | ✓ |
| Bidirectional Link Configuration | ✓ | ✓ | ✓ | ✓ | ✓ |
| Queue Size (Buffer used when data rate exceeds transmission speed) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Layer 2 Head Size | ✓ | ✓ | ✓ | ✓ | ✓ |
| Decrement Packet Time To Live (TTL/Hop Limit) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Jumbo Frame Support | ✓ | ✓ | ✓ | ✓ | ✓ |
| Built-In Intelligence & Automation | | | | | |
| Geolocation Network Latency Calculator | ✓ | ✓ | ✓ | ✓ | ✓ |

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|--|---------|---------|----------|----------|----------|
| Built-In Intelligence & Automation (Continued..) | | | | | |
| Database of more than 100 predefined networks, properties, types and conditions | ✓ | ✓ | ✓ | ✓ | ✓ |
| Network Scenario Builder & Player | - | - | ✓ | ✓ | ✓ |
| Command Line Interface | - | - | - | ✓ | ✓ |
| Presentation, Usage & Control | | | | | |
| Intuitive Multi-User Web GUI including built-in hover-over help; manuals & video tutorials | ✓ | ✓ | ✓ | ✓ | ✓ |
| LCD Set Up & Control Panel (Desktop appliances only) | - | ✓ | ✓ | ✓ | - |
| Packet Capture on Ports or Links | ✓ | ✓ | ✓ | ✓ | ✓ |
| Graphs & Statistics Logging per link | ✓ | ✓ | ✓ | ✓ | ✓ |
| Multi-Tenanted | - | - | - | ✓ | ✓ |
| Connect unlimited users or test devices | ✓ | ✓ | ✓ | ✓ | ✓ |
| Save & Share Emulations & Scenarios | ✓ | ✓ | ✓ | ✓ | ✓ |
| Value-Added Features & Options | | | | | |
| Perpetual License including Full 1st Year Support & Maintenance | ✓ | ✓ | ✓ | ✓ | ✓ |
| Upgradeable to higher spec. models via licence key | ✓ | ✓ | ✓ | - | - |
| Ruggedized Carry Case (Optional - Hardware Appliances only) | - | ✓ | ✓ | ✓ | N/A |
| Network Impairments | | | | | |
| Listed below are the principal impairments the NE-ONE can recreate. Each of these are further customizable to enhance the realism of your test setup | | | | | |
| Latency & Jitter | | | | | |
| Gaussian (Normal Distribution) Delay | ✓ | ✓ | ✓ | ✓ | ✓ |
| Step Delay Periodic | ✓ | ✓ | ✓ | ✓ | ✓ |
| Step Delay Packet | ✓ | ✓ | ✓ | ✓ | ✓ |
| Fixed Delay | ✓ | ✓ | ✓ | ✓ | ✓ |

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| Latency & Jitter (Cont.) | | | | | |
| Fixed Delay with Jitter | ✓ | ✓ | ✓ | ✓ | ✓ |
| Random Delay | ✓ | ✓ | ✓ | ✓ | ✓ |
| Inter Packet Gap | ✓ | ✓ | ✓ | ✓ | ✓ |
| Loss | | | | | |
| Random Loss with Burst | ✓ | ✓ | ✓ | ✓ | ✓ |
| Poisson Drop | ✓ | ✓ | ✓ | ✓ | ✓ |
| Packet Error - 1 in X bits | ✓ | ✓ | ✓ | ✓ | ✓ |
| Burst Loss | ✓ | ✓ | ✓ | ✓ | ✓ |
| Drop - 1 in X | ✓ | ✓ | ✓ | ✓ | ✓ |
| Random Drop | ✓ | ✓ | ✓ | ✓ | ✓ |
| Duplicate | | | | | |
| Packet Duplicate & Move | ✓ | ✓ | ✓ | ✓ | ✓ |
| Out of Order | | | | | |
| Random Packet Time Reorder | ✓ | ✓ | ✓ | ✓ | ✓ |
| Random Packet Move Offset | ✓ | ✓ | ✓ | ✓ | ✓ |
| Packet Reorder 1 in X | ✓ | ✓ | ✓ | ✓ | ✓ |
| Fragment | | | | | |
| Fragment MTU | ✓ | ✓ | ✓ | ✓ | ✓ |
| Bit Error | | | | | |
| Error with Burst | ✓ | ✓ | ✓ | ✓ | ✓ |
| Poisson Error | ✓ | ✓ | ✓ | ✓ | ✓ |
| Random Packet Error | ✓ | ✓ | ✓ | ✓ | ✓ |
| Scenario Builder Network Transitions | | | | | |
| Gradual - Changes parameters gradually (linearly) | - | - | ✓ | ✓ | ✓ |
| Variable - Changes parameters randomly | - | - | ✓ | ✓ | ✓ |
| Outage - creates an increasingly lossy network, followed by total loss, then comes back quickly but not instantly | - | - | ✓ | ✓ | ✓ |
| Certification | | | | | |
| FCC/CE Certified (Hardware appliances only) | - | ✓ | ✓ | ✓ | ✓ |
| VMware Ready Certified (Virtual appliances only) | ✓ | ✓ | ✓ | ✓ | ✓ |

* Exceeds packet rate required to be line rate for all packet sizes for licensed bandwidth.