

# TVM-R620/TVM-R420: 1U Rack Servers Preloaded with TeraVM

Accelerating the deployment of virtualized IP test solutions



TVM-R620

- 1U Rack Server
- 2 x Intel Xeon E5-2690
- 4 x 10GbE test interfaces
- 1 year parts & labor warranty



TVM-R420

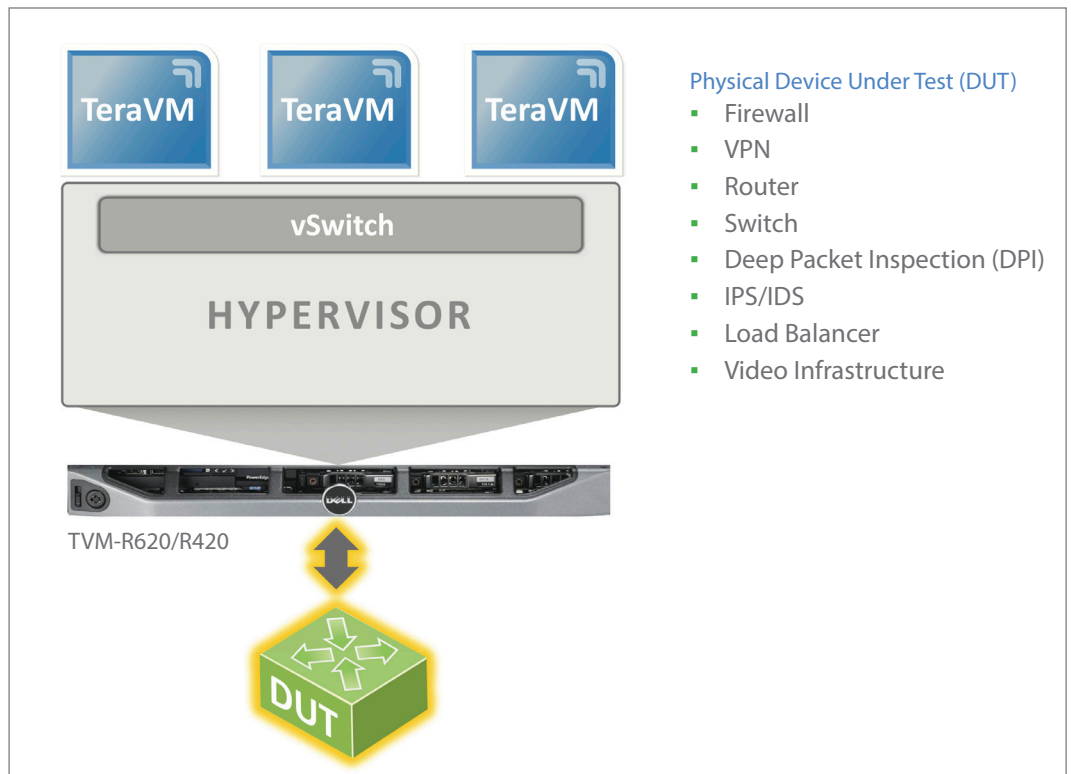
- 1U Rack Server
- 2 x Intel Xeon E5-2470
- 4 x 1GbE test interfaces
- 1 year parts & labor warranty

## Configuration

- ✓ Integrated TeraVM Controller
- ✓ Integrated License Server
- ✓ SR-IOV ready (TVM-R620 only)

Shenick offers both the TVM-R620 and TVM-R420 as pre-packaged bundles of TeraVM on industry standard hardware. Both products utilize off the shelf Dell PowerEdge 1U rack servers and come with TeraVM preloaded and preconfigured. TVM-R620 comes with four 10 GE SFP test ports and is for customers that need a 10 GE test bed. TVM-R420 comes with four GE (RJ-45) test ports and is for customers that need a GE test bed.

Both products are ideal for customers that want the unique benefits of TeraVM such as an elastic test bed without the need to purchase hardware separately and configure TeraVM themselves. With these turnkey solutions customers can begin testing with TeraVM straight out of the box without the need for any virtualization skills or knowledge.



## Shipped Configuration

Both products ship ready to use with all the necessary components such as a controller and license server bundled into the 1U platform. After powering on, test cases can be easily generated via the TeraVM graphical interface or via the powerful test automation environment.

Many customers will utilize TVM-R620/TVM-R420 as a stand alone test platform to reliably and repeatably test a device or network under test. However, because they are both powered by TeraVM the platform is future proofed and can be scaled to a fully functional elastic test bed as required. Also, additional TVM-R620/TVM-R420 units can be added to increase throughput requirements all the way up to a terabit or more. TVM-R620/TVM-R420 can also be geographically distributed to allow sharing of TeraVM licenses across multiple test locations.



## HARDWARE OVERVIEW

Features	TVM-R620	TVM-R420
<b>Hardware</b>	Dell PowerEdge R620	Dell PowerEdge R420
<b>Size</b>	1U Rack Server	1U Rack Server
<b>Target Customer</b>	Test with 10GE ports	Test with GE ports
<b>Processor</b>	2 x Intel Xeon E5-2690	2 x Intel Xeon E5-2470
<b>CPU Detail</b>	16 total CPU cores @ 2.9 Ghz each	16 total CPU cores @ 2.3 Ghz each
<b>Hard Drive</b>	500 GB	500 GB
<b>RAM</b>	64GB	64GB
<b>Test Interfaces</b>	4 x 10GbE	4 x 1GbE
<b>Management Interfaces</b>	2 x GE (RJ-45)	4 x GE (RJ-45)
<b>Other Media Interfaces</b>	USB & Serial port	USB & Serial port
<b>Power Supply</b>	750 watt	550 watt
<b>Rack Rail</b>	Sliding rails without cable management arm	Sliding rails without cable management arm
<b>Hardware Warranty</b>	1 year parts & labor	1 year parts & labor
<b>RMA</b>	Advanced replacement by Shenick	Advanced replacement by Shenick
<b>SR-IOV Ready</b>	Yes	No

## SOFTWARE FEATURES

### GENERAL

- Concurrent multi-users
- Real-time isolation of problem flows

### DATA

- TCP / UDP
- HTTP (incl. headers, substitution, file attachments)
- SMTP / POP3 (incl. file attachments)
- FTP (Passive/Active)
- P2P applications
- DNS

### ADDRESS

- DHCP, PPPoE (IPv4 & IPv6)
- Dual Stack (6RD, DS Lite)
- VLAN & Double Tagging (Q-Q)

### REPLAY

- Replay large PCAP files
- Amplify and dynamically substitute data into PCAP files
- TCP, UDP and raw data playback

### VIDEO

- Multicast: IGMP v1/v2/v3 & MLD v1/v2
- Automatic Multicast Tunelling (AMT)
- Video on Demand (VoD)
- Adaptive Bit Rate Video (HLS, HDS, Smooth)
- Video conferencing

### SECURE VPN

- SSL/TLS/DTLS
- IPsec (IKE v1/v2)
- VPN clients: Cisco, Fortinet, Juniper

- Split stack
- EAP MD5

### SECURITY ATTACK MITIGATION

- Spam / Viruses / DDOS

### VOICE

- VoIP: SIP & RTP (secure & unsecure)
- Dual Hosted UACs, SIP Trunking
- H.323
- Voice & Video quality metric (MOS)

### LTE/4G

- GTP tunnel support

### AUTOMATION

- CLI, Perl, TCL, XML, Java API



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