



# Want to create “real world” Ethernet - in the lab?

## 7 reasons to choose Chimera

- the 100Gbps Ethernet Network Impairment Emulator from Xena Networks

[www.xenanetworks.com/chimera](http://www.xenanetworks.com/chimera)



# 1. True wire-speed 100Gbps impairment

Chimera is one of the very few network impairment solutions on the market that really does let you impair 100Gbps Ethernet – at full wire-speed.

You can also use it for impairing 50Gbps, 40Gbps 25Gbps and 10Gbps Ethernet.



*Chimera is available as a test module for Xena's high-density 4U ValkyrieBay chassis (where it occupies 2 slots) or as a standalone solution in portable 1U Compact chassis.*



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## 2. Generate and impair traffic via same SW

Chimera works seamlessly from inside ValkyrieManager.

This means you can generate streams of Ethernet traffic – and then add precisely the right type of impairment all from within the same GUI.

**This is a unique feature – none of our competitors can offer this.**

The result?

Fast. Easy. Testing.

Main Port Config | **Impairment Config** | PCS/PMA Config & Status | Advanced PHY Features

### Chimera Impairment Features

Enable Impairments

Chimera Port:	P-0-7-0 (QSFP56 50G CR2)	Owner: XenaUser
Valkyrie Port:	P-0-3-0 (QSFP28 50G (dh))	Owner: XenaUser

- ▼ Drop
- ▼ Misordering
- ▼ Latency / Jitter
- ▼ Duplication
- ▼ Corruption
- ▼ Policer
- ▼ Shaper

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# 3. Chimera supports all these impairments

## LATENCY / JITTER

- Constant delay
- Accumulate and burst
- Step delay
- Gaussian / Gamma / Poisson Jitter
- Custom Jitter

## PACKET IMPAIRMENTS

- Drop
- Mis-ordering
- Duplication
- Corruption (ETH, IP, UDP, TCP)

## FLEXIBLE DISTRIBUTIONS

- Manual
- Gaussian, Gamma, Poisson
- Burst drop (Random / fixed)
- Gilbert-Elliot
- Bit Error Rate
- Custom Distributions

## BW SHAPING

- Input policing
- Output shaping

## PORT IMPAIRMENTS

- Optical link flap
- Logical link flap
- PMA error pulse injection

## MISC. FEATURES

- SyncE (Tx follow recovered clk)

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# 4. Custom impairment distributions

Chimera makes it easy to create highly customized impairment distributions with just a few mouse-clicks:

IMPAIRMENTS	Drop Duplication Corruption (ETH/IP/TCP/UDP)	Latency/Jitter	Misordering
DISTRIBUTIONS	<ul style="list-style-type: none"><li>• Manual</li><li>• Fixed burst</li><li>• Random burst</li><li>• Fixed Rate</li><li>• BER</li><li>• Random Rate</li><li>• Gilbert-Elliot</li><li>• Uniform</li><li>• Gaussian</li><li>• Poisson</li><li>• Gamma</li><li>• Custom</li></ul>	<ul style="list-style-type: none"><li>• Uniform</li><li>• Gaussian</li><li>• Poisson</li><li>• Gamma</li><li>• Custom</li><li>• Accumulate &amp; Burst</li><li>• Step</li><li>• Constant</li></ul>	<ul style="list-style-type: none"><li>• Manual</li><li>• Fixed rate</li></ul>

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# 5. Highest port density

If you need lots of ports for emulating impairment – but don't have a lot of space in your server rack – Chimera is just what you've been waiting for.

With up to 48 ports in one 4U ValkyrieBay chassis, no other Ethernet impairment solution can match Chimera when it comes to port density:



ports in 1 chassis

	PORT DENSITY				
Port Speeds	100GE	50GE	40GE	25GE	10GE
# of ports per module	2	4	2	8	8
# of ports per 4U chassis*	12	24	12	48	48

\* 6 modules per chassis

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## 6. Flexible port reservation

Chimera maximizes the value of your test resources.

Unlike our competitors, Chimera lets you reserve just 1 port pair for doing e.g. 25Gbps impairment, so colleagues elsewhere can freely access the other 3 port pairs.

Greater flexibility and better use of test resources means faster testing and more value for money.

Only from Chimera.



*Imagine if airlines only allowed one person per row ...*

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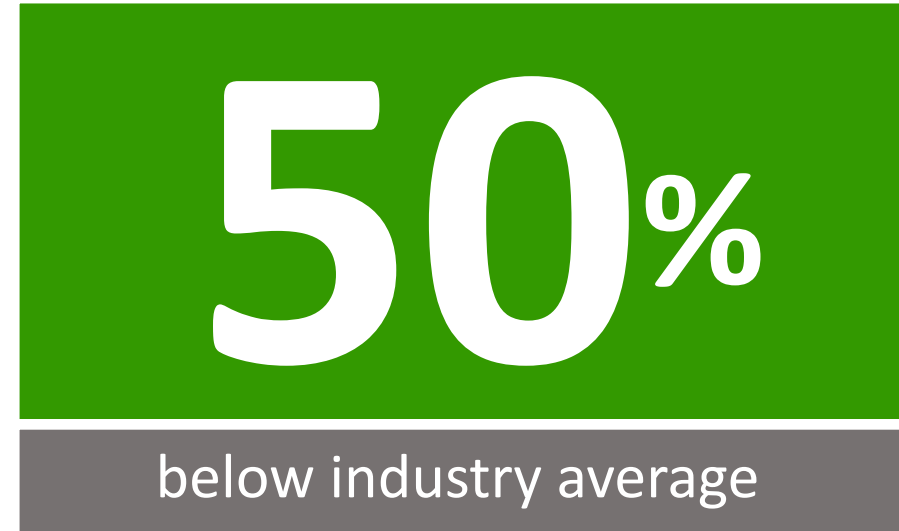
## 7. Best price in the industry

Port for port, Chimera is attractively priced.

Factor in the **Xena Value Pack** and you're looking at serious value for money.

The Xena Value Pack means that with every Chimera solution you receive:

1. 3 years' free software updates
2. 3 years' free HW warranty
3. Free tech support for the lifetime of the product
4. Free product training



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