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GLOBAL TECH GIANTS



Leaders in IT Management Infrastructure

Rediscover Resilience with Enterprise-grade Ops for the Data Center, Branch, & Edge



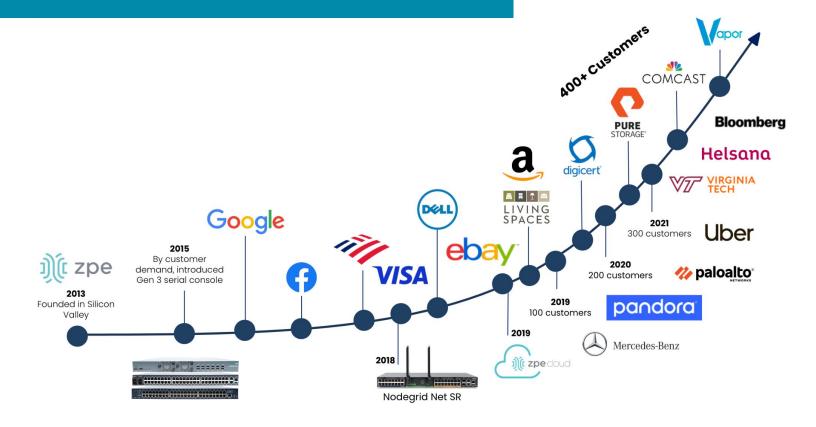
Celebrating 10 Years of Innovation



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Cut workloads, reduce errors, and mitigate attacks. ZPE Systems delivers Big Tech's resilience practices on an infrastructure & management platform made for any organization

The ZPE Systems Journey



ZPE Systems addresses Big Tech's need for operational excellence by delivering a secure isolated management infrastructure.

The extensible, secure-by-design Nodegrid platform served as the drop-in solution for achieving remote troubleshooting to Infrastructure- as-code and hyperautomation, while providing an isolated control plane for resilience against outages and cyberattacks.

Together with Big Tech, we've perfected Nodegrid and the best practices they use to cut their workloads, automate operations, and quickly patch and recover from ransomware.

We now serve 6 of 10 top tech giants, and we're helping 400 other customers achieve operational excellence through Big Tech's best practices for infrastructure and management.

Founded: 2013, Private

Headquarters: Silicon Valley - Fremont, CA

Offices: Brazil, Ireland, India, France Global & Enterprise Customers: >400

Employees: 140+

Sales region: Global, 100% channel

Gartner.
Peer Insights...





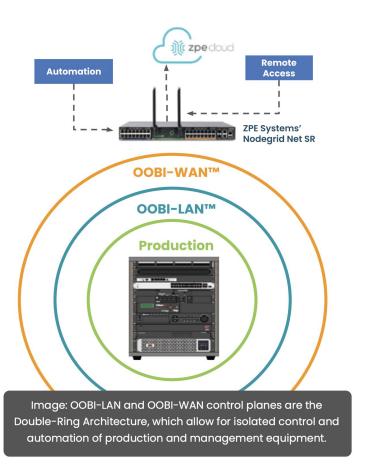






Management Infrastructure from Data Center to Edge

ZPE Systems provides the physical and cyber platform to enable **Big Tech's Best Practices** for data center, branch, and edge network operations. Our Nodegrid Serial Consoles and Services Routers give you a drop-in solution for secure out-of-band access, while the onboard Nodegrid OS hosts your choice of apps, tools, and automation. ZPE Cloud gives you a bird's-eye view of every site, where you can click in to perform routine maintenance, push automation scripts, or fully rebuild environments to fight off cyberattacks.





Deploy revenue-generating IT in hours

Multi-function Nodegrid devices run automation tools of your choice. Instead of deploying an entire stack, just install a single Nodegrid, and let your automation chain bring services online in hours.

Cut ops workloads by 50%

The IMI control plane lets you test configurations and automations before pushing to production. Ensure system integrity without guesswork, and get peace of mind knowing you can instantly undo mistakes.

Seal out risk

The IMI fully segments the management network from production, enables automated patching, and ensures clean recovery. This blocks attack movement, locks out the latest threats, and prevents reinfection.

Never pay the ransom

Recovery - not defense - is the key to combating modern threats. The IMI lets you quickly deploy an Isolated Recovery Environment to decommission, cleanse, and restore affected gear, so you can shrug off ransomware.



"Nodegrid is like having extra engineers on the team"

-Frank Basso, Vapor IO

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Without resilience, you've got *too much and too little problem*s

Too much work, too little staff



An overworked contractor unintentionally deleted files, delaying flights nationwide for an entire day

Too much complexity, too little room for error

Southwest' >

A firewall configuration change caused 16,000 flight cancellations and cost the company ~\$1 Billion

Too much gear, too little recovery



IT teams lacked recovery systems, allowing attacks to persist for weeks and cause millions in losses per day

Customer Challenges Solved by ZPE Systems

Data center disaster & downtime recovery, scaling, sustainability

Simplifying remote infrastructure deployments, reducing ongoing ops costs, downtime, & truck rolls

Recovering quickly from cyberattacks and ransomware

1. Automation Infrastructure

Reducing device sprawl by combining switching, firewall, jumpbox, routing, IoT gateway, 5G, OOB

Eliminating complexity by consolidating devices and centralizing control of multi-vendor environments

Reducing ops friction with a platform to deploy any app, anytime, anywhere

2. Services Delivery Platform

Why resilience is a struggle for operations

83%

205+

\$4.5M

Of IT teams are understaffed, forcing them to focus on ops instead of business goals days pass between patches, because teams don't know if they'll break systems in damages on average, with 70% of orgs unable to recover in under 2 weeks



Our customers rely on ZPE Systems for Remote Access, Resiliency, Security to operate their business critical infrastructure



Hyperscale Data Center & Colocations

Optimize services and increase resilience

- Secure Isolated Management Infrastructure
- Anxiety free datacenter automation with 'undo' button

digicert

Utilities

Maintain strict SLAs and reduce capex / opex

- Remote jumpbox access and out-of-band
- Collapse 6 appliance in-1 ZPE Net SR Nodegrid



Retail

Set up stores fast and stay online with just 2 IT staff

- · Day 0 automation skip staging
- Out-of-band in each MDF for large square footage





Reduce MTTR and automate troubleshooting

- Central MDF & IDF access
- · Compute & add-on cards





Remote Critical Infrastructure

Eliminate truck rolls and leverage critical data

- Host 3rd party SD-WAN, NGFW, apps, agents
- Sensors for IoT/OT and environmental monitoring





Branch Offices

Prevent cyber attacks and ensure continuity

- Remote troubleshooting from ZPE Cloud
- 4G/5G for out-of-band shared as 2nd WAN



What resilience looks like with Nodegrid

50%

fewer work-hours using Nodegrid's remote access and automation

0 days

between patches using Nodegrid's IaC integration & config 'undo' button 100%

uptime using Nodegrid's dedicated environment for instant response & recovery

Hyperscale Data Centers





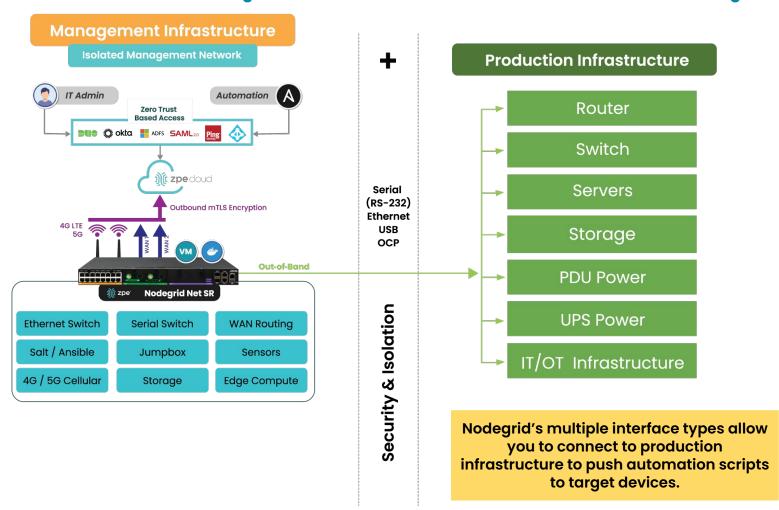
Why Hyperscale Data Centers need Gen 3 Serial Consoles and Isolated Management Infrastructure

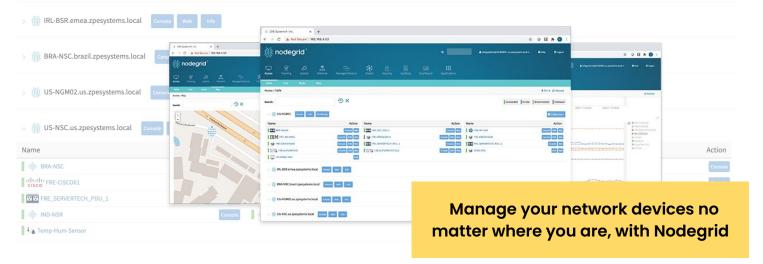
Instead of using production networks for admin tasks, an out-of-band management network (or Isolated Management Infrastructure, as written by CISA), gives admin access to devices via a fully independent network. This mitigates the risk of human errors or security threats taking your production network offline. IMI simplifies and accelerates remediation, and Gen 3 serial consoles offer a drop-in approach to deploying an IMI.

Why IMI is crucial to the data center:

- You get 24/7 remote access to your critical data center infrastructure, even if your WAN link goes down, so you can troubleshoot and recover without expensive truck rolls.
- You can fight through cyber attacks using full remote access to isolate, cleanse, and recover production gear without exposing yourself.
- You can avoid performance impacts on the production network and end-users, by performing resource-intensive network orchestration on the IMI's dedicated management plane.

CISA defines Isolated Management Infrastructure as the 'Best Practice' to network design





Benefits for the Data Center

- Maintain and manage target devices, including PDUs, without rolling trucks
- Reach every node in the data center with low-level remote access
- Get one UI for mixed environments, regardless of pin-outs or management software
- Shrink training times & fatigue with normalized commands across all solutions
- Work efficiently with clustering to access distributed locations and devices
- Stay invulnerable to supply chain attacks with provisioning of factory-default boxes
- Save specialized staff for value-add tasks by automating routine jobs



Connect 16, 32, 48 or 96 (Patent No. 9,905,980) serial devices and quickly scale to millions of nodes. Dual SFP+ and dual Ethernet ports keep data free from slowdowns, while the multi-core Intel CPU delivers blazing responsiveness. Built-in 5G/4G LTE and Wi-Fi options give you reliable cellular failover and secure out-of-band access, so you can keep it all online all the time.

Popular SKUs	
ZPE-NSCP-T48R-STND-DAC	ZPE Systems Nodegrid Serial Console Plus - 4-Core Intel CPU, 4GB DDR4 RAM, 32GB Storage. 48-Port Serial RJ45, 2x 1GbE, 2x SFP+, 4x USB (2x USB 2.0, 2x USB 3.0.) Dual DC (DAC)
ZPE-NSCP-T48R-STND-DDC	ZPE Systems Nodegrid Serial Console Plus - 4-Core Intel CPU, 4GB DDR4 RAM, 32GB Storage. 48-Port Serial RJ45, 2x 1GbE, 2x SFP+, 4x USB (2x USB 2.0, 2x USB 3.0.) Dual DC (DDC)
ZPE-NSCP-T48R-STND-DAC-4G	ZPE Systems Nodegrid Serial Console Plus - 4-Core Intel CPU, 4GB DDR4 RAM, 32GB Storage. 96-Port Serial RJ45, 2x 1GbE, 2x SFP+, 4x USB (2x USB 2.0, 2x USB 3.0.) Dual DC (DAC) 4G LTE with Dual SIM
ZPE-NSCP-T96R-STND-DDC-4G	ZPE Systems Nodegrid Serial Console Plus - 4-Core Intel CPU, 4GB DDR4 RAM, 32GB Storage. 96-Port Serial RJ45, 2x 1GbE, 2x SFP+, 4x USB (2x USB 2.0, 2x USB 3.0.) Dual DC (DDC) 4G LTE with Dual SIM

Colocations

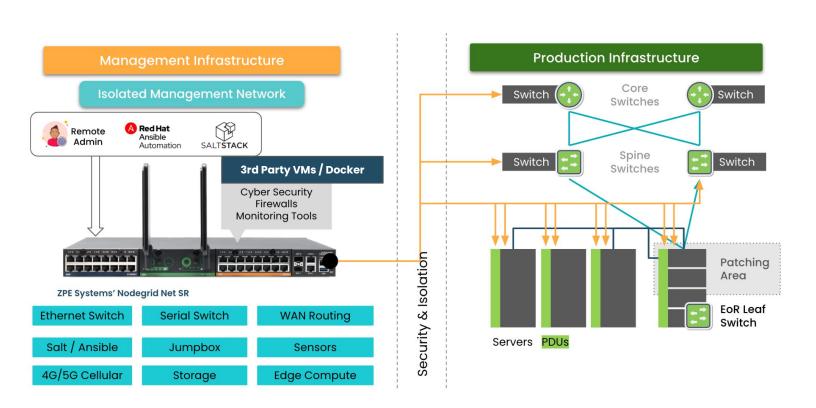


How Gen 3 out-of-band via IMI reduces deployment times, cuts costs, & meets changing requirements

Colocation deployments often require hours of on-site work and ongoing maintenance, and significant overhauls to solve new use cases. Nodegrid's Gen 3 out-of-band via IMI is lean yet powerful. Multi-function devices shrink the stack to save valuable rack space. The open Nodegrid OS integrates into any automation, IaC, or DevOps environment, for zero-touch deployments and true lights-out management. The extensible OS and modular hardware also allow you to address new requirements with code or simple field maintenance.

Why IMI is crucial to colocation operations:

- You get plug-n-play deployments, with a secure environment dedicated to Day 0 3 operations.
- You put operations on autopilot, because Nodegrid supports automation, IaC, and DevOps regardless of your environment, for a true lights-out management approach.
- You meet changing requirements, with the extensible Nodegrid OS and modular hardware that allow you to deploy the apps and services you need, anywhere, anytime.



Benefits for Colocation Operators

- Always-ready remote access to systems, even if physical access is not possible
- Resilience through main-line failures and misconfigurations, with separate 4G/5G WAN
- Save physical space & energy by combining 9+ functions into one Nodegrid box
- Cut deployment times to 1 hour with secure, automated provisioning via ZPE Cloud
- Save time, money, and effort by automating Day 0 2 operations
- Get point-and-click access to your distributed fleet, including PDUs, using ZPE Cloud
- Focus on business by integrating into CI/CD environments, to put ops on autopilot
- Quickly adapt to new requirements with the modular, 1RU Nodegrid Net SR
- Deploy any app or service, anywhere, at any time via the IMI's Services Delivery Platform



"Now, we deploy in one hour using one box instead of five, and it fits into our CI/CD pipeline so well that we can do proper lights-out management of all our sites. I'm still finding more ways that it frees up my engineers and trims costs."

-Frank Basso, Vapor IO

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16-Port GbE



16-Port GbE SFP



Storage Card



16-Port USB Serial



Compute



M.2 Cellular / Wi-Fi / SATA



16-Port Serial



8-Port SFP+



8-Port PoE+

Popular SKUs	
ZPE-NSR-48-SAC	ZPE Systems Nodegrid Net SR - 4-Core Intel CPU, 8GB RAM, 32GB Storage. Network Ports: 4 - 2x 1GbE, 2x SFP+ (Management), 3x USB [2x USB 2.0, 1x USB 3.0], Single AC (SAC) Chassis
ZPE-NSR-816-DAC	ZPE Systems Nodegrid Net SR - 8-Core Intel CPU, 16GB RAM, 32GB Storage. Network Ports: 4 - 2x 1GbE, 2x SFP+ (Management), 3x USB [2x USB 2.0, 1x USB 3.0], Dual AC (DAC) Chassis
ZPE-NSR-832-DDC	ZPE Systems Nodegrid Net SR - 8-Core Intel CPU, 32GB RAM, 32GB Storage. Network Ports: 4 - 2x IGbE, 2x SFP+ (Management), 3x USB [2x USB 2.0, 1x USB 3.0], Dual DC (DDC) Chassis

Branch & Remote Edge





Scale on demand with efficient operations, no matter how small your team

Lean IT teams are spread thin by branch operations, with inflated device stacks, complex admin processes, and limited support for automation. Nodegrid and ZPE Cloud solve these challenges by eliminating the need for dedicated devices, centralizing administrative control, and enabling automation for any skill level. You get the agility to deploy on demand using a secure platform that scales to the needs of your team and your business.

Why IMI via Nodegrid is crucial to the branch:

- You collapse your stack by consolidating 6+ functions into one device, for an agile solution that's easy to deploy and adapt to your needs.
- You get centralized access at each site, with a single point-of-entry that makes jobs point-and-click simple while minimizing your attack surface.
- You reduce manual and repetitive tasks, by safely testing and deploying automation based on your skill level.



Prolonged downtime, truck rolls

Near 100% uptime, agility, cost savings

Benefits for Branch and Remote Edge

- Scale on demand with compact and agile devices that consolidate 6+ functions
- Save time and eliminate staging risks, with automation that builds full environments from ZPE Cloud
- Don't wait to generate revenue bring sites online without a main line, using strong 4G/5G links
- Eliminate truck rolls, with ZPE Cloud giving you point-and-click access to every site from the NOC
- Keep customers online and revenues flowing with diverse failover links, like cellular, MPLS, & more
- Secure and optimize services by directly hosting any security, connectivity, and monitoring app
- Gain crucial insights by collecting sensor data and analyzing with edge computing
- Save specialized staff, by automating deployments and ongoing maintenance



"Nodegrid cut costs by \$75k per year and that was just the beginning. Nodegrid lets us operate 50 stores in a regular work week. We use ZPE Cloud to push scripts that automatically configure new sites. For everything else, we just click into a location and do what we need — reboot hanging gear, apply patches, update software, you name it."

- Blake Johnson, Network Architect, Living Spaces Furniture

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Bold SR



Hive SR



Link SR



Mini SR

Popular SKUs	
ZPE-LSR-24-4G-W5	ZPE Systems Nodegrid Link SR - 2-Core Intel CPU, 4GB RAM, 32GB Storage. 1x Serial RJ45, 1x 1GbE (PoE In), 1x SFP+, 2x USB 2.0. 4G LTE (CAT 12) with Dual SIM, Wi-Fi 5, Power over Ethernet (PoE Input) or Single DC (SDC) Power Configurations. (AC Power adaptor not included, order ZPE-LSR-PSU separately.)
ZPE-BSR-48-4G	ZPE Systems Nodegrid Bold SR - 4-Core Intel CPU, 8GB RAM, 32GB Storage. 8x Serial RJ45, 4x IGbE (Switch), 1x IGbE, 4x USB (2x USB 2.0, 2x USB 3.0.) 4G LTE (CAT 12), Single AC (SAC) Power Configuration
ZPE-GSR-48-D128G	ZPE Systems Nodegrid Gate SR - 4-Core Intel CPU, 8GB RAM, 32GB (Disk 1) + 128GB (Disk 2) Storage. 8x Serial RJ45, 8x GbE Switch (4x PoE+ Output), 1x GbE, 4x USB (2x USB 2.0, 2x USB 3.0). Dual DC (DDC) Power Configuration with PoE+ Output (AC Power adaptor not included, order ZPE-GSR-PSU separately.)
ZPE-HSR-816-GW	ZPE Systems Nodegrid Hive SR - 8-Core Intel CPU, 16GB RAM, 16GB (Disk 1) Storage. 2x 1GbE Copper/SFP, 4x 2.5GbE, 2x 10GbE SFP+, 2x USB 3.0, Single DC (SDC) (Ships with Gateway Profile for ZTP)

Nodegrid Serial Consoles



Nodegrid Serial Console - S Series



NSC-T48S-STND-DAC-B-SFP



NSCP-T96R-STND-DAC

The Nodegrid Serial Console (NSC) devices are **Generation 3 Serial Consoles**. These overcome the limited functionality of Gen 1 devices and the scarce automation capabilities of Gen 2. Modern enterprises are embracing IaC and NetDevOps. Only Gen 3 satisfies this need for greater automation and orchestration.

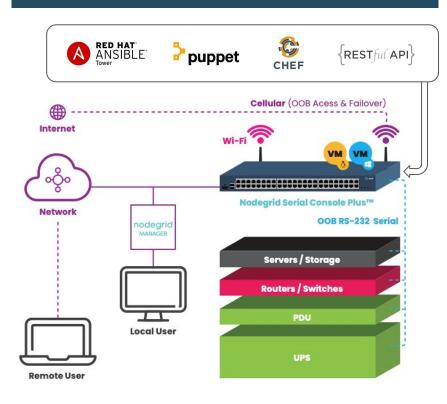
Gen 1 OOB Remote Access

Gen 2
OOB Remote Access

OOB End-to-End Automation

- Simple connectivity for remote access
- Limited scripts for automating troubleshooting
- Open architecture for full automation, security, routing and control

Get more done with Gen 3 Out-of-Band Solutions



Gen 2 serial consoles don't support IMI, so teams can't leverage Big Tech's best practices

There's growing business demand for everything to work 99.999% of the time, and also more attack vectors that hackers can exploit. The network should just work — from installation through refresh. That's why we worked with many enterprises and the world's tech giants to gather the latest out-of-band requirements and create a blueprint for the Gen 3 serial console.

Gen 3 Serial Consoles implement current best practices and provide a separate management plane with remote access, services delivery, and automation capabilities, along with added layers of security that enable true ZTNA.

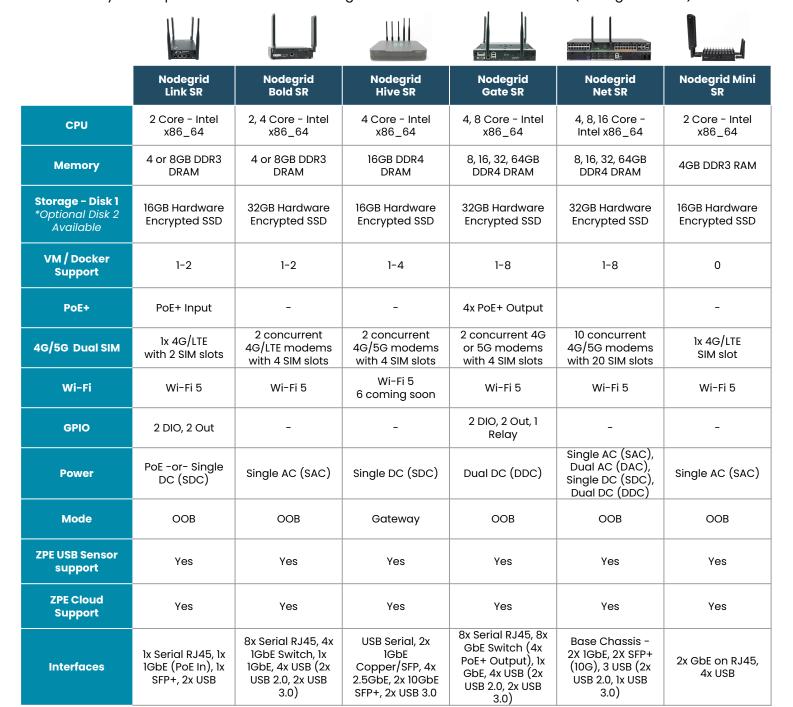
Nodegrid Services Routers



Put branch networks at your fingertips and savings in your hand

Nodegrid was built to overcome vendor lock-in and provide fully customizable networking. Our hardware features x86 architecture & the Linux-based Nodegrid OS, so you get an open platform backed by powerful internal components. The vendor-neutral Nodegrid Manager software ties everything together under one interface for simple, uncompromising branch management.

- Shrink your stack using all-in-one hardware that can host every function
- Choose solutions based on your exact needs, thanks to guest OS & application hosting / containers
- Simplify management onto one clean interface, regardless of your vendor solutions
- Stay future-proof with the flexible Nodegrid OS & robust add-on modules (Nodegrid Net SR)



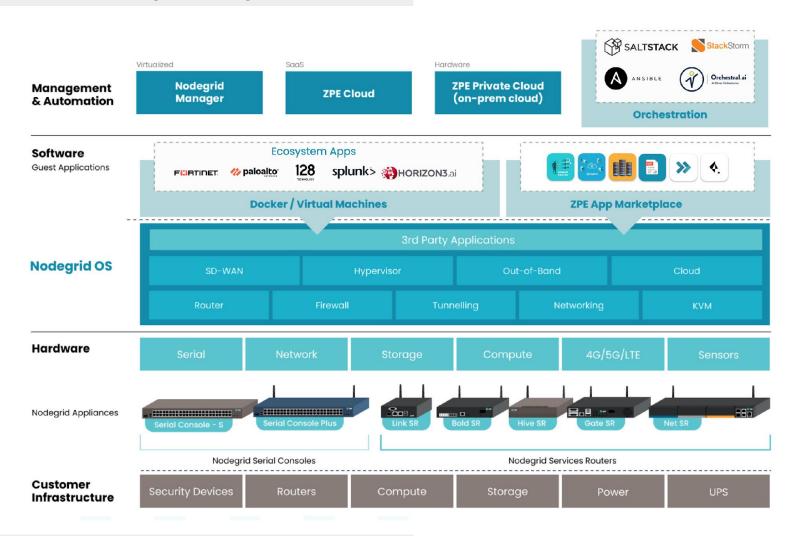
j)(i zpecloud

ZPE Cloud Centralized fleet management and orchestration

Device management, access and zero touch provisioning are paramount needs for enterprises. All Nodegrid devices in Gateway mode automatically connect to ZPE cloud and wait for automation scripts to kick off additional jobs such as software upgrades and detailed configurations. Additional apps such as Nodegrid Data Lake can store information from ZPE sensors and enable Al capabilities.



ZPE Nodegrid Building Blocks



Environmental Monitoring Sensors & Alarms



Automation Infrastructure Solution Comparison

	Gen3	OOBI-WAN	Platform &	Management	
Vendors	OOBI	and Security	Tools	On-Prem	SaaS
ZPE Systems					
Vendor A	•	•	•		0
Vendor B		•	0		0
Intel NUC/Whitebox	0	0		0	0

Security in Layers		ZPE Systems	Others
Security Integrations	CyberArk, Delinia, Horizon3.aiPaloAlto, Fortinet, Cloudflare	⋄	00
Certification and Processes	SOC2 Type 2, FIPS140-3,PSIRT, Pentesting	⋄	00
Software & Cloud	 Latest Kernel and CVE patches Zero Trust based access SAML2 based SSO MFA Latest encryption standards 	⋄ ⋄ ⋄ ⋄ ⋄ ⋄	00000
Software Development	 Dynamic Code Analysis Static Code Analysis Software BOM analysis including Open Source Software Composition Continues Security Assessments Zero CVE Policy Vulnerability Scan 	✓✓✓✓	000 00
Hardware	 Secure Signed OS Password-protected BIOS and Boot Loader TPM 2.0 Self Encrypted Disk Secure Boot Geo Fencing Protected 	<!--</th--><td>000000</td>	000000

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Validated Virtualized Applications







































ZPE Systems, Inc.

3793 Spinnaker Court Fremont, CA 94538, USA

Toll Free:

- +1 844 4 ZPE SYS
- +1 844 497 3797

Email:

sales@zpesystems.com

ZPE Europe Limited

Alexandra House, 3 Ballsbridge Park Dublin, D04 C7H2, Ireland

33 Rue Galilée 75116 Paris, France

Toll Free (France):

+1 844 419 7338

Email:

sales-eu@zpesystems.com

ZPE Brasil Sistemas

St Nereu Ramos 165 – 2nd floor – Jardim Blumenau Blumenau – SC 89010-019, Brazil

Phone:

+55 47 3513 5488

Email:

sales-br@zpesystems.com

ZPE Systems India Private Limited

Central Quay, No. 35/1, 1st Floor, Yellapa Chetty Layout, Ulsoor Road, Bangalore, Karnataka 560042

Phone:

+91 080-42157539 +91 080-29916680

Email:

sales-apac@zpesystems.com



Putting IT Operations on Autopilot

Jennifer Autry presents the story of Vapor IO. See how they used automation to reduce deployment times and make operations more efficient.



Heavy
Networking 69
Why 00B
Infrastructure
Critical For IT 0
& Automation
With ZPE Syste
(Sponsored)



Heavy Networking 691: Why OOB Infrastructure Is Critical For IT Ops & Automation With ZPE Systems

Living Spaces details how ZPE Systems rethinks Out of Band so you can leverage this network for more than rebooting servers and configuring switches.

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