

整合式5G資料運算平台 5G Data Center in a Box

Lanner Electronics Fred Chang

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Leader in Advanced Next-Gen Network Edge Revolution

About Lanner Electronics

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DNA IT+OT+CT

Network Security / Whitebox Solutions / 5G MEC Open RAN / Edge Computing To bring the best expertise in the industry

365x24

Availability and Reliability Consideration Optimal System workload IO throughput performance

World-leading Provider for Network Appliances and Edge Computers

#

Strong Collaboration = Satisfied Customers

Ecosystem Software Partners

Tier -1 customers

Data Center In a Box

Telecom Transformation

Data Center in a Box: A Use Case in North America

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DAILY NEWS

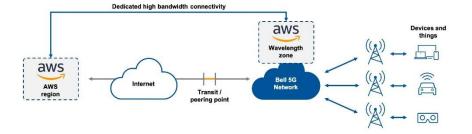
Word • Business • Finance • Lifestyle • Travel • Sport • Weather

Bell and Amazon Web Services bring 5G Edge Compute to Canada _{Factor}

NEWS PROVIDED BY Bell Canada → Apr 26, 2022, 11:35 ET

Bell extends its 5C leadership by deploying the first AWS Wavelength Zone at the edge of Canada's most awarded and fastest-ranked 5C network

MONTREAL, April 26, 2022 (CNW Telbec/ - Bell today announced the launch of the first public multi-access edge computing (MEC) with AWS Wavelength in Canada. Building on Bell's agreement with AWS, announced last year, together the two companies are deploying AWS Wavelength Zones throughout the country at the edge of Bell's SG network starting in Toronto.



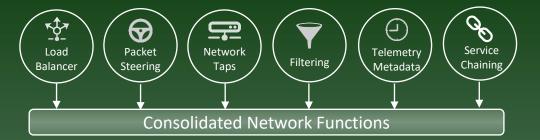
Bell Public MEC with AWS Wavelength embeds AWS compute and storage services at the edge of the Bell 5G network, closer to mobile and connected devices where data is generated and consumed.

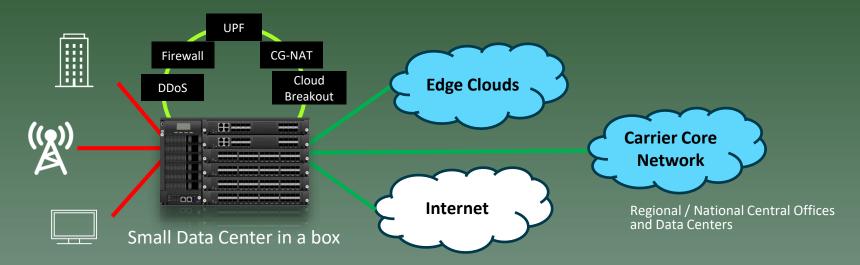
This enables software developers and businesses to take full advantage of the high speed and low latency of Bell's 5G network and the cloud with AWS to build innovative, low-latency solutions that leverage real-time visual data processing, augmented/virtual reality (AR/VR), artificial intelligence and machine learning (AI/ML), advanced robotics, and much more.

Data Center In a Box: The CoSP's Benefits

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- 1. Fewer Hardware
- 2. Lower Operating Cost
- 3. More Value-added Services





1. Fewer Hardware

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Carrier Edge needs programmable networks not based on legacy protocols

- Adaptable to support new features
- Software defined for automation

Better Visibility

Tofino provides programmable telemetry in silicon

Provide visibility into the performance of platform and VNFs

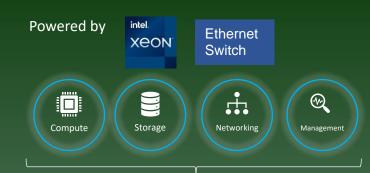
- In-band Network Telemetry (INT) for VNF performance
- Monitor the operational performance of the network

Scalable Architectures

Collapse multiple appliances on Tofino

Scalable network, compute and applications

NoviFlow uses the network to scale across multiple virtual machines, blades or platforms





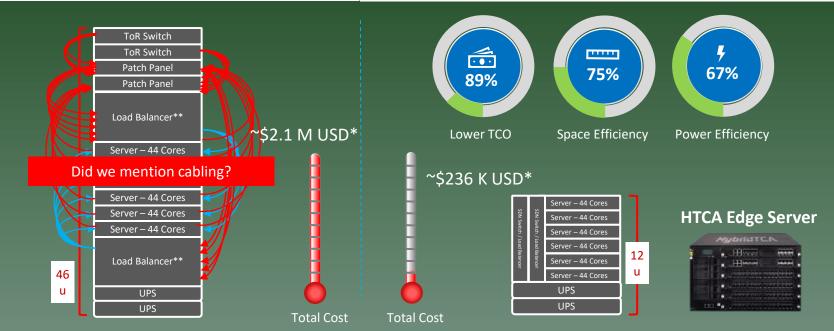
Lanner HTCA Edge Server

2. Lower Operating Cost

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Traditional Architecture

Lanner HTCA Architecture



* List Prices ** "Sandwiched" configuration, single point of failure

3. More Value-added Services

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Firmware/Drivers

• Lanner/Intel

Operating System Software

- RHEL
- Ubuntu/CENTOS

Virtualization Software

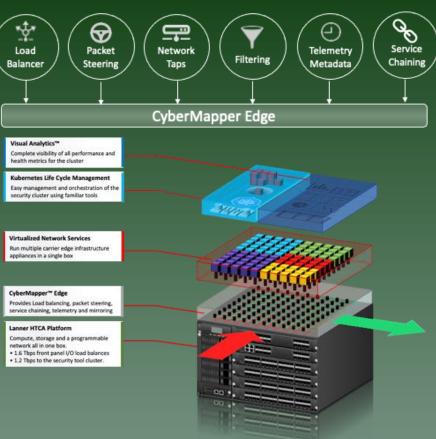
- Kubernetes
- KVM

Orchestration Software

- Red Hat OpenShift
- Foreman/Ansible

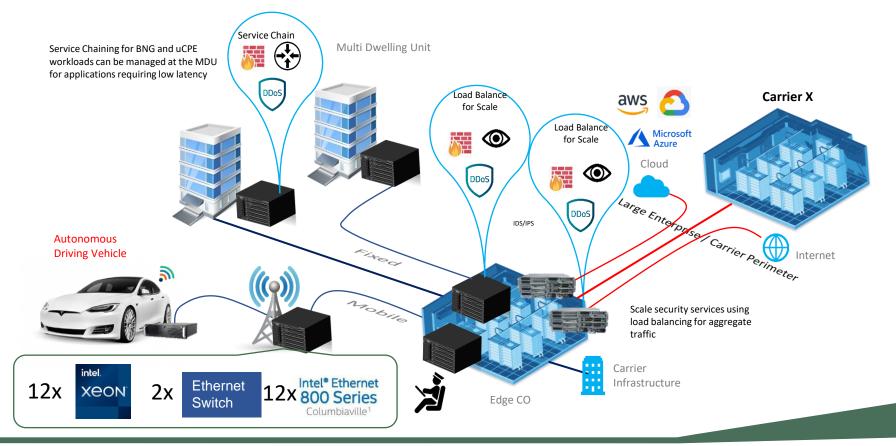
VNF/CNF Software (payloads)

- DDoS Prevention
- FW/CGNAT
- Load Balancing
- •



Data Center In a Box: Deployment Scenario



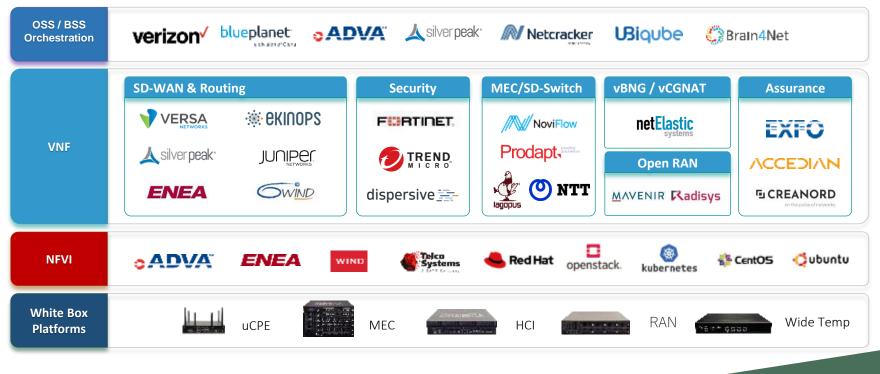


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Whitebox Solutions & Ecosystem Software Partners







Data Center In a Box: Key Takeaways



- CapEk
 - Lovrer TCO
 - Less Space 46U vs 12U
 - Performance Scalability
 - Interoperability
- Upgradability

OpEx

- Zero-touching Provisioning
- Power Saving
- Subscription-based Software
- Remote Chassis Monitoring
- Virtual Lab Testing

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Thank You

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