



5G Network











Extreme throughput

Enhanced spectral efficiency

Extended coverage

eMBB



» Mission Critical

» Extreme Density

mMTC

5G

Low Latency High Reliability High Availability Location precision

Energy Optimization High Connection Density Low Complexity Extended Coverage



IEI's 5G AloT Edge to Core Network Solution





















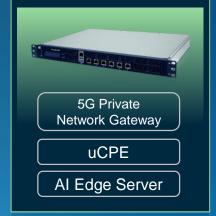








On-Premise Edge



5G Private Network

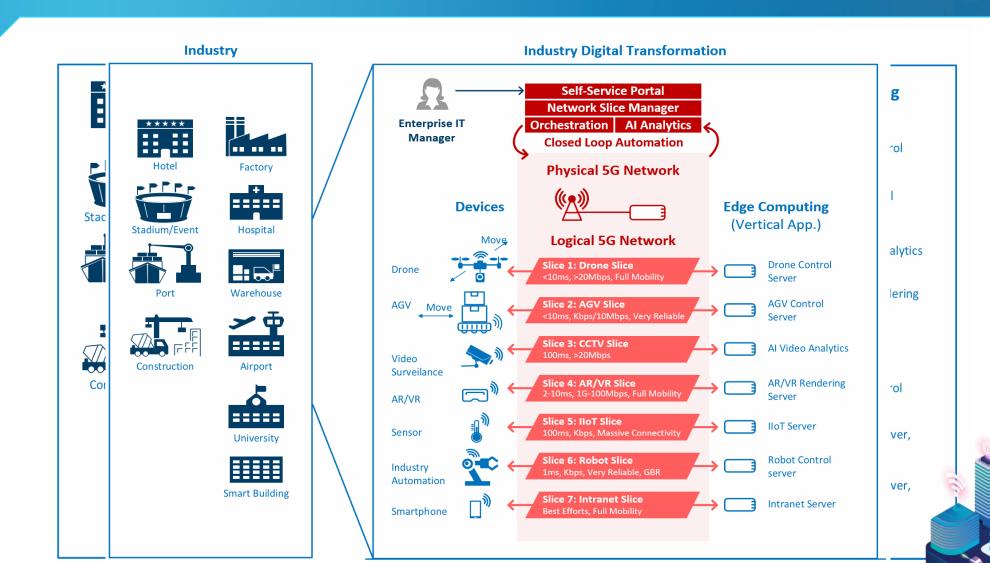


Core Network



How 5G Private Network Works



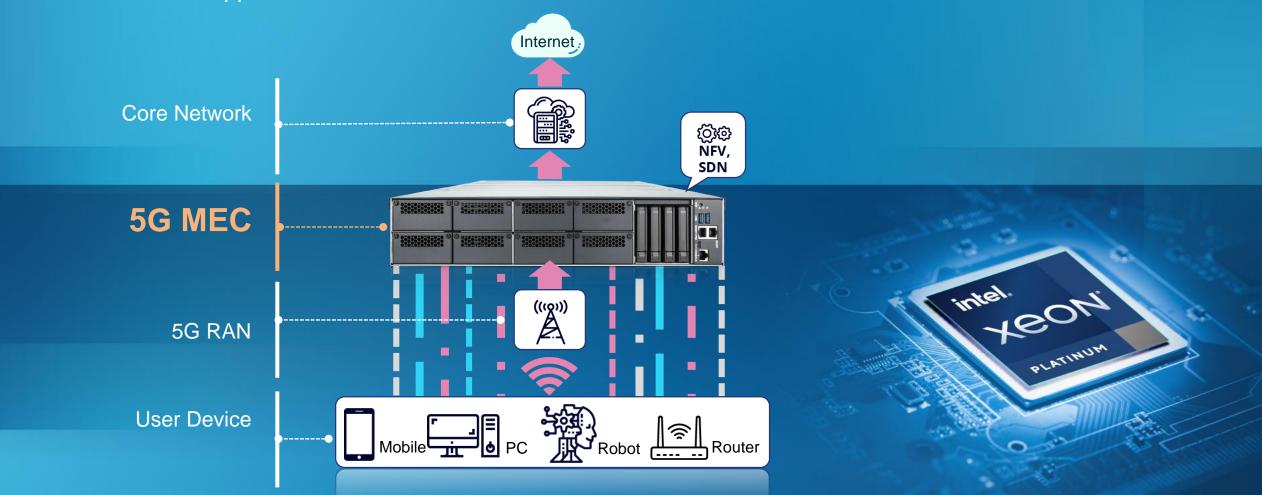


IEI's PUZZLE-IN005 Aim for 5G MEC



» 5G MEC Solution

5G MEC is a network solution to providing IT service and telecommunication network at the edge. The PUZZLE-IN005 brings services closer to users, and provides ultra-low latency, high bandwidth, virtualization application and reliable network solution.



PUZZLE-IN005





Feature

- Dual Intel® 3rd Gen Xeon® Scalable processors (Code Named : ICE LAKE-SP)
- 20 x DDR4 R-DIMM / LR-DIMM memory
- 8 network module with PCIe gen4 x8 signal
- Intel® Quick-Assist Technology
- 4 x U.2 (PCle x4) 2.5" SSD compatible with SATA
- 1+1 1200W CRPS redundant power supply
- 4+1 hot swappable system fans

Application

- Universal Customer Premise Equipment (uCPE)
- Multi-access Edge Computing (5G MEC)
- Al computing server

Al computing server



3rd Gen Intel® Xeon Scalable Processor (Ice Lake-SP)

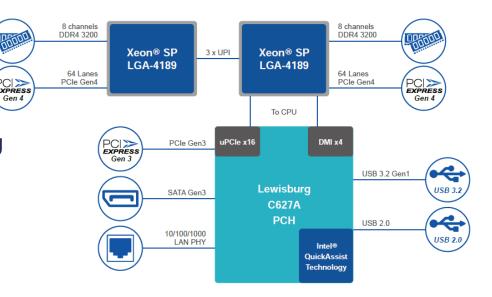






Highlights

- First 10nm server grade Xeon CPU
- First PCIe Gen4 support, 64 lanes per CPU
- Increase the number of DDR4 memory channels from six to eight per CPU
- Integrate Intel Quick Assist Technology





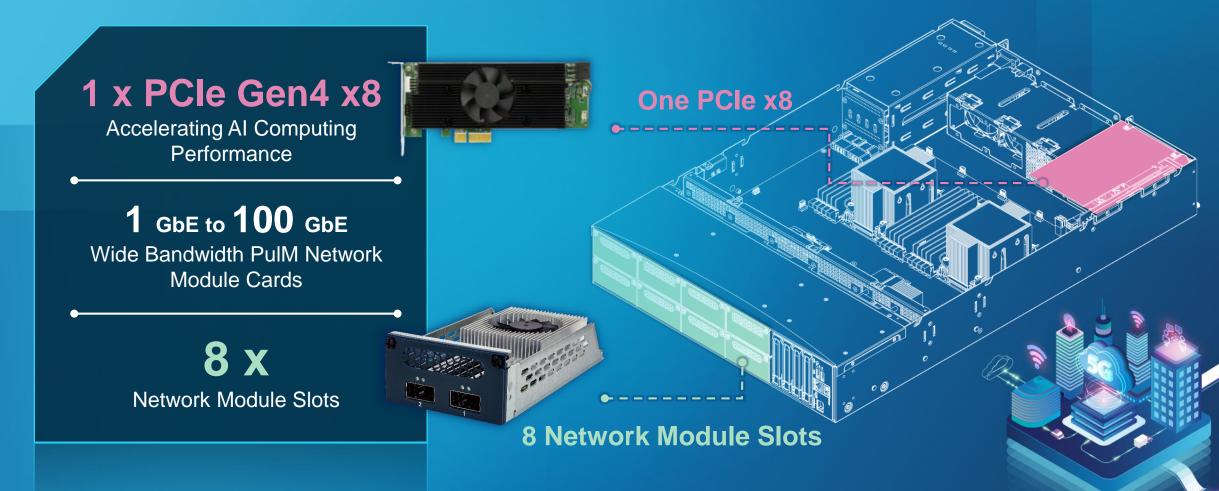


Scalable Expansion Capability



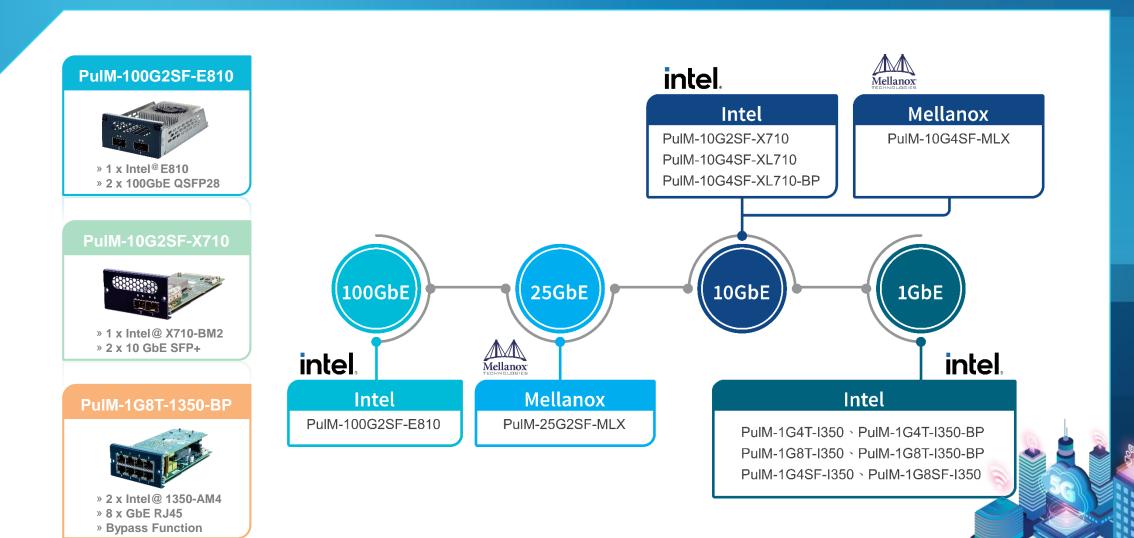
» Diverse Selections, Different Combinations

The PUZZLE-IN005 is designed with eight network module expansion slots to add on different functions, bandwidths or even SSD for more storage needs. In addition, it has one PCIe x8 slot to adopt AI accelerating card or add-on cards for improving performance and efficiency.



RICH PulM Module Selection

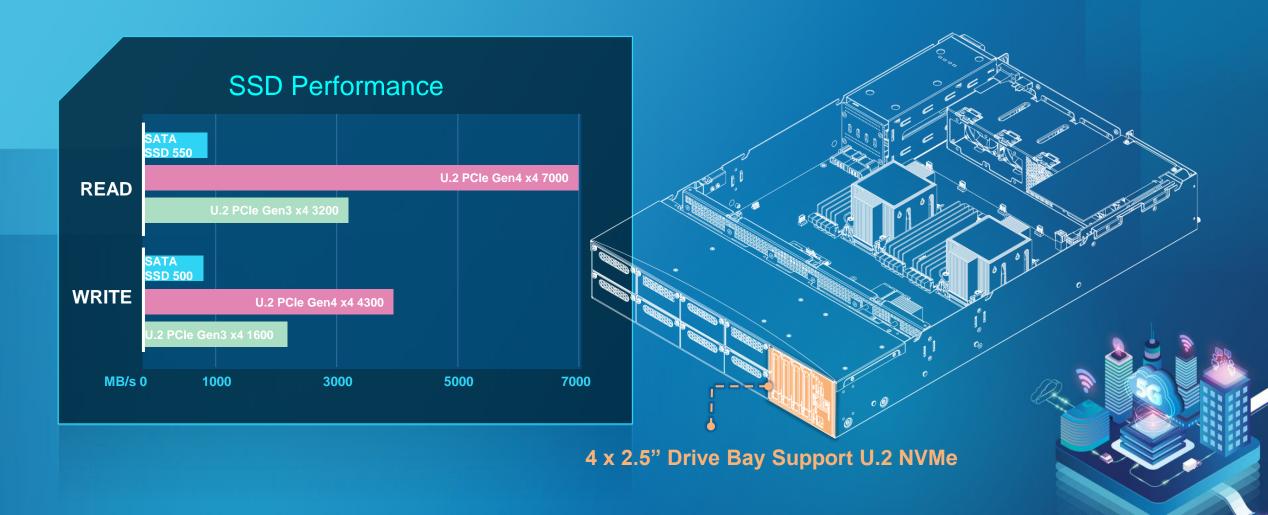




High Speed Storage with U.2 NVMe

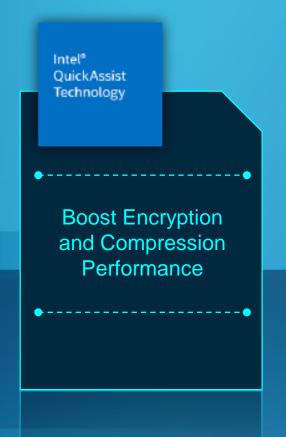


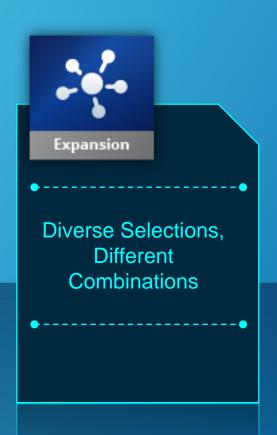
- » The U.2 SSD interface features high-speed, low-latency and low-power NVMe standard protocol.
- » PUZZLE-IN005 support PCIe 4.0 channel, the transmission speed is up to 7000MB/s while PCIe 3.0 U.2 is 3200MB/s, and SATA is 500MB/s, which is 2 times faster than PCIe 3.0 U.2 and 10 times faster than SATA.



Conclusion of Advantages of IEI PUZZLE-IN005











Network Solution









Next-Gen Firewall IPS/IDS/Anti Virus/ SPAM/UTM



uCPE Solution

NFV & SDN Intel® ISS (uCPE) uCPE for ADVA



Edge Computing

Edge Server Al Inference System Management Server



Network Infrastructure

VPN & SD-WAN Routers & Switch ADC & Load Balance







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