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RP tech India Becomes Distributor of Super Micro Computer

In a bid to strengthen its Enterprise solutions portfolio, RP tech India, country's only value-added distributor has announced a distribution partnership with Super Micro Computer, Inc. (SMCI). Under this tie-up, the company will offer Supermicro's wide range of Enterprise Server Storage & Networking solutions catering to the SMB, IDC/CDC, High-Performance Computing (HPC) and Artificial Intelligence (AI) verticals through SI partners.

Supermicro is a global leader in High Performance, High-Efficiency Server Technology and Innovation. The Company provides end-to-end green computing solutions to the Data Center, Cloud Computing, Enterprise IT, Big Data, HPC, and Embedded markets.

Commenting on the partnership, Mr. Kapal Pansari, Director at RP tech India said, "We are very excited to join hands with Supermicro Computer. This partnership will enable us to strengthen our presence in the highly competitive Server business in the country."

"With cutting edge solutions, we will be able to address the rapidly increasing HPC demand from Institutional / Departmental customers and High Dense Servers & High Storage intense Servers demand from IDC/CDC customers", Mr. Pansari added.

The deployment of High-Performance Computing (HPC) is on steady growth in India, especially, in the sectors such as Education, R&D, Biotechnology etc. According to the forecast of Marketsandmarkets, the sector is expected to grow from USD 32.11 billion in 2017 to USD 44.98 billion by 2022, at a CAGR of 7%. The research states that an increasing need for efficient computing, enhanced scalability, and reliable storage is expected to propel the adoption of HPC solutions.

RP tech India is betting big on this emerging business segment. The company is making substantial investments in resources to develop its expertise in the area of Data Center business. Supermicro is the established solution provider of the entire gamut of servers and storage solutions to enterprises. With this partnership, the company will leverage RP tech India's diverse brand portfolio, coverage and strong channel ecosystem in order to reach to the potential customers.

Microsoft announces intelligent industry innovations

It's a time of great disruption but great opportunity in the manufacturing industry, as businesses seek to find novel ways to create new business value, empower and upskill their workforce, optimize their operations and innovate for a sustainable future. Advanced technologies like AI, mixed reality and automation are helping drive Industry 4.0, creating a future where "intelligent manufacturing" is a reality. We are introducing updates that help bring this reality even closer for our customers and partners, to deliver increased security, productivity and efficiency, which will help them achieve new business outcomes.

We are announcing several improvements to our trusted, innovative manufacturing solutions, including:

Azure is now the first major public cloud with end-to-end security for IoT for your devices, hubs and cloud resources. We are adding advanced threat protection for IoT to three key services: Azure Security Center for IoT can now be used to implement security best practices and mitigate threats across entire IoT projects including hubs, compute and data. Azure Sentinel, the first cloud-native security information and event management (SIEM) offering, can now protect the entire enterprise from threats including those affecting IoT devices. Azure IOT Hub now integrates with Azure Security Center for IoT to provide IoT security information directly inside the hub portal experience.

The introduction of OPC Twin and OPC Vault in our Azure Industrial IoT Cloud Platform solution, which respectively provide manufacturers a digital twin of their OPC UA-enabled machines and significantly enhance security and certification management. We're also announcing important enhancements to the Connected Factory solution accelerator, which now integrates with OPC Twin to greatly simplify the process of installing IoT Edge.

An expansion of Azure IP Advantage to IoT, which extends Azure IP Advantage benefits to Azure customers with IoT devices connected to Azure, and devices that are powered by Azure Sphere and Windows IoT. Additionally, qualified startups who join the LOT Network have the ability to acquire Microsoft patents through LOT for free.

ZOTAC announces its entry into the electric mobility

ZOTAC Technology, a global manufacturer of innovation, is absolutely electrified to announce its entry into the electromobility market by showing the first concept of its new, ultra-compact electric vehicle, that's not just for gamers!

ZOTAC is a pioneer in the industry, with its AMPlified and MINI GeForce graphics cards; its ZBOX and ZBOX PRO Mini-PCs; and its MEK Gaming PC, and now ZOTAC has set its sights on the electromobility segment with the ultra-compact sized ZOTAC GAMING MEK DRIVE.

"Based on over 12 years of expertise, designing and engineering electronic components in our award-winning GeForce graphics cards, mini and Gaming desktop PCs as well as the industry leading battery technology used in our VR GO backpack PCs, we at ZOTAC are making the next logical step in preparing for the future electromobility market. Due to a number of reasons, electromobility is becoming an industry to be taken seriously, so today, I am proud to introduce our new ZOTAC GAMING MEK DRIVE", says MaciejWieczorek, senior marketing manager ZOTAC EMEAI.

Whilst most cars only have a singular color, selectable only at the time of purchase, the ZOTAC MEK DRIVE packs on the RGB, with powerful, addressable LEDs to ensure everyone's car is customized to their preference at any given moment, by utilizing our ZOTAC SPECTRA software, with its lighting effects and modes, supporting a wide spectrum of colors.

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Array Networks Launches Monitoring and Reporting System for Transforming Application Data into Actionable Intelligence

Array Networks Inc. announced the release of the Monitoring and Reporting System (MARS), which provides highly granular in-depth monitoring and reporting for one or more physical or virtual Array APV Series Application Delivery Controllers (ADCs). MARS enables IT admins to ensure network uptime, application security, and a superior user experience by providing on-demand visibility into traffic patterns, potential server availability or responsiveness issues, handshake and authorization issues, and other indicators of risks to application security and server efficiency.

"IT departments the world over are under increasing pressure to maximize the performance and availability of applications and servers, as well as the overall user experience, in order to support greater productivity," said Vinod Pisharody, Chief Technology Officer at Array Networks. "Through MARS, network administrators now have a powerful tool to proactively address problematic servers and other trends, and ensure a strong security posture appropriate for their organization."

Available in Basic or Advanced versions to fit the needs of customers running as few as a single Array ADC or as many as 32 Array ADCs, MARS provides a centralized console with graphical dashboards of user and server behaviors as well as traffic managed by Array server load balancing. Because of the unique position of the APV Series in the network – in front of data and application servers – and due to their ability to decrypt SSL traffic at near wire speed, MARS can provide unique insights that allow network administrators to quickly spot trends and trouble spots and remediate as needed to ensure performance and user experience.

Tata Communications Transformation Services partners with Zeetta Networks for Next-generation Network Services

Tata Communications Transformation Services (TCTS), partner of choice for the world's leading Communication Service Providers (CSPs) and a wholly owned subsidiary of Tata Communications, a leading global digital infrastructure provider and Zeetta Networks, a leading network slicing and splicing® company, announced a global partnership agreement to facilitate early adoption of technologies like 5G and network slicing within the ICT space.

As a partner to Zeetta Networks, TCTS will install, maintain and support Zeetta Networks' NetOS® in telco and enterprise networks to enable use cases like Factory-as-a-Service, smart cities, smart venues, connected cars, gaming and security etc. TCTS will also provide System Integration services for Zeetta Networks' multi-tenant, multi-technology software platform. As part of the agreement, TCTS will be a key go-to-market partner for Zeetta Networks to target new markets and grow the business by leveraging TCTS strong presence in the Telecom service provider market.

Commenting on this partnership, Madhusudhan Mysore, Executive Chairman & CEO, Tata Communications Transformation Services said, "We are happy to partner with Zeetta Networks at this important juncture as the telecom industry goes through digital transformation to drive more customised and differentiated service offerings. Our partnership with Zeetta Networks for network slicing will allow operators to build networks on demand & slice the networks based on specific requirements of autonomous cars, AR/VR & other use cases. While the service providers get ready for 5G networks, we have demonstrated slicing-as-a-service – which is ready now on 4G/Wi-Fi networks with experiential use cases of smart stadiums and pop up networks."

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Cyient Launches Solutions for 5G Deployment

Cyient, a global provider of engineering, manufacturing, geospatial, networks, digital, and operations management solutions to global industry leaders, announced today that it has rolled out a portfolio of services and solutions that help Communication Service Providers (CSPs) expedite 5G network rollouts globally. The services will not only help in defining the migration roadmap towards the 5G NSA standard, but also help in planning smarter and faster rollouts, including site verification and benchmarking in post deployment operations.

For the 5G planning phase, Cyient's LiDAR-enabled surveying services and drone-based mobile 3D survey capabilities help in efficient identification of areas for 5G rollout. This is further combined with GIS based coverage analysis to provide more inputs for optimal site planning.

Cyient also offers solutions in a portable and cloud-native form along with propagation modeling, single cell function test, multi-cell function test & passive inter-module testing services for verification of availability and performance of the deployed networks.

Cyient has been offering cutting-edge transformation services to CSPs around network planning and design, inventory management and network operations, helping them to take their services to market faster, and improve the end customer experience. With 5G accelerator services, Cyient aims to simplify the network and operational complexity for CSPs further, thereby, setting the framework for implementing high levels of network automation and analytics.

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Cloud Gaming Could Be 25% of 5G Data Traffic by 2022

As mobile operators deploy 5G networks, it's vital that they prepare for the disruptive impact that cloud gaming could pose. According to mobile operator executives attending Openwave Mobility's Mobile Video Industry Council (MOVIC) livecast, most operators believed that cloud gaming could represent 25% to 50% of 5G data traffic by 2022, based on the rapid progression of cloud gaming services in recent months. Over 50 operators including Vodafone, Orange, Deutsche Telekom, Verizon, AT&T and Telefonica discussed the latest mobile data trends. Analysts from Analysys Mason, Strategy Analytics and ABI Research also contributed their own research.

5G networks will support cloud game streaming, enabling consumers to play digital games on their handsets without the need to own or install a copy of the game. These subscription-based services will give consumers access to a high-end gaming experience without requiring additional hardware.

"The recent emergence of cloud gaming platforms including Google Stadia, Apple Arcade, Microsoft xCloud and Snap Games has not escaped the attention of the operator community," said John Giere, President and CEO of Openwave Mobility. "Over-the-top (OTT) players have ambitious plans to become the 'Netflix for gaming', hosting libraries of thousands of instantly accessible games that, ultimately, will consume three to four times the amount of bandwidth on 5G networks, compared to standard definition video traffic. Needless to say this will impact mobile operator data strategies."

BIOSTAR To Launch Next-Generation RACING Series and Gaming solutions

BIOSTAR will be launching its latest gaming, home entertainment, edge computing and smart home solutions at COMPUTEX held in Taipei Nangang Exhibition Center held between May 28th and June 1st, 2019. Key launches this year will be BIOSTAR's fourth-generation RACING series motherboards for the new AMD Ryzen platform, the full portfolio of system-on-chip motherboards for home entertainment, server PCs, and edge computing, and its industrial motherboard as well as Smart home solutions. Also on show will be BIOSTAR's latest solid state drives including the M500 M.2 NVMe SSD and BIOSTAR's latest graphics cards. BIOSTAR will bring a new generation of computing solutions to COMPUTEX, taking gaming, home entertainment, business solutions to the next level.

4th Generation RACING Series and Next Gen-Gaming Solutions

The BIOSTAR RACING Series of high-performance motherboards feature the latest technologies for performance and aesthetics. The BIOSTAR RACING Series is geared towards gamers and power users that demand performance with great stability and reliability. BIOSTAR will be demonstrating the 4th generation RACING Series powered by the next-generation AMD Ryzen processors to highlight its capabilities in gaming, entertainment, and professional use.

Apple Spends $2.5 Billion in Environmental Initiatives

Apple announced it has nearly doubled the number of suppliers that have committed to run their Apple production on 100 percent clean energy, bringing the total number to 44. Because of this partnership between Apple and its suppliers, Apple will exceed its goal of bringing 4 gigawatts of renewable energy into its supply chain by 2020, with over an additional gigawatt projected within that timeframe. This comes one year after Apple announced that all of its global facilities are powered by 100 percent renewable energy.

"Every time one of our suppliers joins us in our efforts to address climate change, we move closer to a better future for the next generation," said Lisa Jackson, Apple's vice president of Environment, Policy and Social Initiatives. "We've made it a priority to hold our suppliers accountable to the same environmental standards we observe and hope that our collaboration will show others what is possible. While we are proud of our announcement today, we won't stop driving change within our industry to support the clean energy transition happening globally."

Apple reduced its comprehensive carbon footprint for the third year in a row in 2018, in large part due to the company's Supplier Clean Energy Program. Manufacturing makes up 74 percent of Apple's carbon footprint, so the program helps its suppliers increase energy efficiency and transition to renewable energy sources. Just last year, Apple and its suppliers participated in clean energy generation that roughly equaled the electricity needed to power over 600,000 homes in the US.

Apple has further expanded its supplier education and support initiatives, including through its Clean Energy Portal, an online platform to help suppliers identify renewable energy sources globally.

Intel Optane Technology and Intel QLC NAND Technology Come Together on a Single Drive

Intel revealed details about Intel® Optane™ memory H10 with solid-state storage – an innovative device that combines the superior responsiveness of Intel Optane technology with the storage capacity of Intel® Quad Level Cell (QLC) 3D NAND technology in a single space-saver M.2 form factor.

Combining Intel Optane technology with Intel QLC 3D NAND technology on a single M.2 module enables Intel Optane memory expansion into thin and light notebooks and certain space-constrained desktop form factors – such as all-in-one PCs and mini PCs. The new product also offers a higher level of performance not met by traditional Triple Level Cell (TLC) 3D NAND SSDs today and eliminates the need for a secondary storage device.

Intel's leadership in computing infrastructure and design allows the company to utilize the value of the platform in its entirety (software, chipset, processor, memory and storage) and deliver that value to the customer. The combination of high-speed acceleration and large SSD storage capacity on a single drive will benefit everyday computer users, whether they use their systems to create, game or work.

Hikvision IntroducesNexGen Wireless Intrusion ALARM Panel 'AX-HUB'

The AXHub is the latest innovation in intruder alarm systems. Part of the Hikvision AX Series is designed for catering residential and small commercial applications, the AXHub connects security peripherals such as motion detectors and displacement sensors, alongside safety devices like smoke and gas sensors to keep people safe. Hikvision cameras and the AXHub alarm systems work seamlessly together to provide a recorded video clip or live HD video footage, directly through Hik-Connect, iVMS or instantly to monitoring stations. This allows active decisions to be made faster and more reliably in the event of an activation.

Simple to install and use, the AXHub provides voice prompts locally to assist during installation, as well as alert the end user to any events. The AXHub is also compatible with the Hik-Connect smart device app, in addition to a wide range of communication pathways and multi-port IP communications via either the Cloud or CMS for added peace of mind.

D-Link introduces new Unmanaged Long range PoE/PoE+ Switches

D-Link (India) Ltd., a leader in end-to-end data network connectivity solution anounced the launch of new family of 6 port, 9 port and 18 port Unmanaged Long range PoE/PoE+ Switches. DES-F1006P-E, DES-F1009P-E and DES-F1018P-E are 100Mbps PoE switches that enable users to easily connect and supply power to PoE capable devices such as wireless access points, IP cameras and VOIP phones. All these switches are designed to cater transmission of data and power distance of up to 250meters.

With DES-F1006P-E (6 port PoE), DES-F1009P-E (9 port PoE) and DES-F1018P-E (18 port PoE) Long Range PoE/PoE+ switches, D-Link brings out reliable and affordable switching solution to address the growing demand of SMB, SOHO and Smart Home users. Customers can connect PoE compatible devices to these switches without using additional power supply. This allows user to save on cabling, and allows one to install devices in location without immediate access to power outlets.

DIGISOL launches L2-Managed Din-Rail Industrial Gigabit PoE Switch

DIGISOL Systems Ltd., (100% Subsidiary of Smartlink Network Systems Ltd.) a leading provider of Active Networking products, today announced the launch of L2-Managed Din-Rail Industrial Gigabit PoE Switch. The DG-IS4506HPE switch is designed for Industrial applications. Thanks to its wide operating temperature it can operate reliably in extremely harsh environments. Designed with 4 10/100/1000M PoE ports & 2 1000M SFP ports which provides abundant and flexible connection. The switch support surge protection to ensure system stability for greater user flexibility.

DIGISOL Managed Ethernet switch provide the ability to configure port settings, manage network performance and monitor your LAN for critical issues. DIGISOL's managed industrial Ethernet switch is designed to operate flawlessly in harsh environments and offer best-in-class performance.

DIGISOL Managed Industrial Ethernet Switch enables configuration, monitoring and management of industrial LAN's providing advanced performance and real-time deterministic network operation.

Intel Announces First 58Gbps FPGA Transceiver in Volume Production Enabling 400G Ethernet Deployment

This industry-leading technology doubles transceiver bandwidth performance when compared to traditional solutions. It is critical for applications where high bandwidth is paramount, including: networking, cloud and 5G applications, optical transport networks, enterprise networking, cloud service providers, and 5G. By supporting dual-mode modulation, 58Gbps PAM4 and 30Gbps NRZ, new infrastructure can reach 58Gbps data rates while staying backward-compatible with existing network infrastructure.

The Stratix 10 TX FPGA with 58Gbps PAM4 transceiver technology provides system architects with higher transceiver bandwidth and hardened IP to address the insatiable demand for faster and higher density connectivity.

"The 400Gb Ethernet and QSFP-DD market is evolving at a fast pace. And being first to market with a portable solution is instrumental to enable the transition from lab to the field. We were excited to work closely with Intel to deliver our next-generation test module with the only production FPGA technology supporting native 58Gbps PAM4," says Ildefonso M. Polo, vice president of Product Marketing at VeEX.

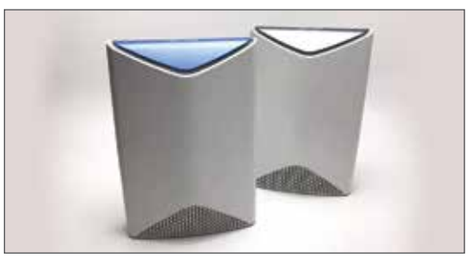
To facilitate the future of networking, Network Function Virtualization (NFV) and optical transport solutions, Intel Stratix 10 TX FPGAs provide up to 144 transceiver lanes with serial data rates of 1 to 58Gbps. This combination delivers a higher aggregate bandwidth than any current FPGA, enabling architects to scale to 100Gb, 200Gb and 400Gb delivery speeds.

A wide range of hardened intellectual property cores, including 100Gb MAC and FEC, deliver optimized performance, latency and power.

Tenda 4G680, 300Mbps Wireless 4G LTE and VoLTE Router launched in India

Tenda, a global leader in networking solutions introduces a new wireless 4G LTE and VoLTE router, the Tenda 4G680. Compliant with IEEE 802.11b/g/n standards, the 4G680 will offer a wireless data rate as high as 300 Mbps. With an embedded 4G LTE module, it will work with all the mainstream frequency bands for 4G LTE. With 4G LTE and Wi-Fi technology, the 4G680 allows you to enjoy lag-free HD streaming and fast downloading. In addition, the RJ11 port of the 4G680 connected to a telephone provides you with voice service, making the 4G680 your ideal choice for great value enjoyment of both internet and voice services.

How to Keep Your Customers Happy and Connected with Insight and Orbi Pro



Businesses today rely heavily on services that keep their customers engaged, connected and happy. NETGEAR's recent Bye Bye Bad WiFi survey of more than 1,000 SMBs (small and medium sized businesses) confirmed this. According to the survey, 61 percent said that offering a good WiFi connection to their customers was very important to their business, and 48 percent said it is critical to customer retention.

The questions then are: how can businesses ensure that their WiFi is adequate, and how can NETGEAR help?

NETGEAR's Orbi Pro is a DIY business-grade Mesh Network system. Mesh routers or whole-business WiFi systems use a router, and multiple satellite or nodes, to ensure coverage of the WiFi signal throughout the square-footage of a given business location, which results not only in greater coverage, but faster speeds and a more reliable connection as well.

A business owner can also register, set up, monitor and manage the Orbi Pro mesh WiFi system locally and remotely, using NETGEAR Insight, both through the NETGEAR Insight app and NETGEAR Insight Cloud Portal. The NETGEAR Insight cloud portal can be accessed online here, and the NETGEAR Insight app can be downloaded for free from the Apple App store or Android Plays Store.

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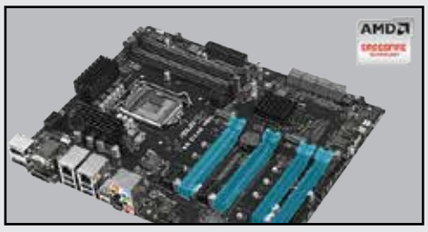
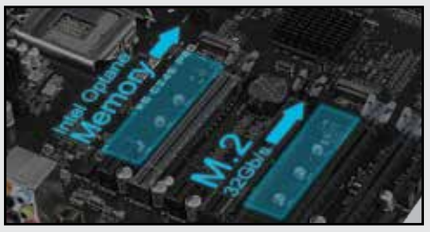


Flexible expandability with add-on cards

Four PCIe x16 slots for flexible system configurability and expandability with add-on cards, such as NVIDIA Quadro graphics, RAID and LAN cards. With support for AMD CrossFireX 3-way configurations, WS C246 PRO harnesses the full power of the latest graphics technologies.

Three independent displays simultaneously

Equipped for total display flexibility with onboard HDMI, DisplayPort, DVI-D and VGA connectivity. With a compatible latest - generation Intel® processor, you can connect up to three independent displays simultaneously for better multitasking and enhanced productivity.



32Gbps performance and data redundancy

Dual M.2 slots to unleash maximum data- transfer performance. One M.2 slot supports up to 22110-length M.2 drives via PCIe Gen3 x4 for ultrafast data access. The other M.2 slot is suitable for SATA drives or Intel® Optane memory via PCIe Gen3 x2 support

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GIGABYTE Unveils GeForce GTX 1650 series graphics card

GIGABYTE, the world's leading premium gaming hardware manufacturer, announced the latest GeForce® GTX 1650 graphics cards powered by NVIDIA TuringTM architecture. GIGABYTE launched 4 graphics cards – GeForce® GTX 1650 GAMING OC 4G, GeForce® GTX 1650 WINDFORCE OC 4G G, GeForce® GTX 1650 OC 4G, GeForce® GTX 1650 MINI ITX OC 4G. TuringTM architecture graphics cards have the ability to execute both integer and floating-point operations simultaneously making them much faster than the previous Pascal architecture. These graphics cards all use overclocked GPUs certified by GIGABYTE, and with WINDFORCE cooling technology, all players can enjoy the perfect experience from a variety of games.

GeForce® GTX 1650 GAMING OC 4G provides the WINDFORCE 2x 100mm cooling solution for all key components of the graphics card. It takes care of not only the GPU but also VRAM and MOSFET, to ensure a stable overclock operation and longer life.

ZOTAC GAMING UNVEILS POWER SIPPING GEFORCE GTX 1650

ZOTAC Technology, a global manufacturer of innovation, announced the ZOTAC GAMING GeForce GTX 1650 OC, the latest addition to the ZOTAC GAMING GeForce® GTX 16-series. Featuring the NVIDIA Turing™ architecture, 4GB GDDR5 memory, and super low power requirements, the ZOTAC GAMING GeForce® GTX 1650 OC is factory overclocked out of the box, supports triple display capability via HDMI 2.0b, DisplayPort 1.4 and Dual Link DVI-D port, and delivers performance that's up to 2X the GeForce GTX 950 and up to 70% faster than the GTX 1050 on the latest games.

Epson Advances DIY Home Theater with New 4K PRO-UHD Home Cinema Projectors

Epson, the number one projector manufacturer in the world1, introduced two new Home Cinema projectors designed to deliver an immersive 4K experience to DIY home theaters. The Home Cinema 5050UB and wireless Home Cinema 5050UBe 4K PRO-UHD®2projectors feature 2,600 lumens of equal color and white brightness3, HDR104, and Epson UltraBlack™ technology to display an incredible range of color and detail in both bright and dark scenes. Leveraging full 10-bit color output – plus proprietary dedicated processors for resolution enhancement, HDR and image processing – the new Home Cinema 4K PRO-UHD2 projectors display incredible color accuracy, brightness, and image detail to faithfully display content the way it was meant to be seen – on the big screen with bright, full color and stunning resolution.

Dell & Alienware redefine PC gaming in India

With a strong focus on purposeful innovation, Dell and Alienware in India launched state-of-the-art gaming machines; Alienware Area-51m, Alienware m15 and Dell G7 catering to a growing PC gaming market comprising amateur and professional gamers. The latest addition to Dell's gaming portfolio has some of the most iconic design languages from Dell – 'Legend' and 'Epic' which set a new bar of excellence addressing the core asks of PC gamers i.e. performance and function. After delighting global audiences at CES 2019, these devices have made their way to India. Also, at CES 2019, Alienware was honored with multiple awards for its ground-breaking design and cutting-edge functionality. Dell in India believes that the evolving gaming landscape, with its developing gamer profiles, growing communities, and a distinct rise of gamers regionally, requires development of an ecosystem. Dell is now bringing iconic products, next generation software and strategic partnerships, to advance the industry in India.

ASUS Announces ROG Strix, Dual, and Phoenix GeForce GTX 1650 Graphics Cards

ASUS announcedGeForce® GTX 1650 graphics cards, adding new products into the ROG Strix, Dual, and Phoenix lineups. Based on the GeForce GTX 1650 GPU, these new graphics cards leverage the impressive performance of the Turing™ architecture to provide a strong foundation for AAA 1080p gaming, or a plug-and-play upgrade for aging systems.

ROG Strix: Take flight

ROG Strix graphics cards give userscomplete control over performance, with GPU Tweak software allowing every setting to be fine-tuned. The advanced Wing-blade fan design and a large heatsink with DirectCU II technology keep things cool.ROG Strix also features premium components that have been mounted with Auto-Extreme Technology, an automated production process that enhances reliability. Whether upgrading an outdated card or building afirst gaming rig, ROG Strix GeForce GTX 1650 provides a premium introduction to the latest generation of graphics performance.

CORSAIR Launches Two New High-Performance Gaming Mice – IRONCLAW RGB WIRELESS and GLAIVE RGB PRO

CORSAIR®, a world leader in PC gaming peripherals and enthusiast components, announced the addition of two new high-performance mice to its rapidly expanding gaming peripheral lineup. IRONCLAW RGB WIRELESS, a wireless version of the acclaimed IRONCLAW RGB launched in early 2019, uses hyper-fast SLIPSTREAM CORSAIR WIRELESS TECHNOLOGY alongside an 18,000 DPI optical sensor to provide gamers with cutting-edge wireless performance and superb accuracy and tracking. GLAIVE RGB PRO sees the popular GLAIVE RGB, featuring three interchangeable side grips, updated with a new 18,000 DPI sensor and additional RGB lighting. Whether gamers choose the wireless freedom and palm grip-friendly shape of IRONCLAW RGB WIRELESS or the customizable grip of GLAIVE RGB PRO, they'll find a CORSAIR mouse that elevates their gameplay and in-game performance.

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CPU Supply Constraints Are Strengthening Top Vendors' Positions

Worldwide PC shipments totaled 58.5 million units in the first quarter of 2019, a 4.6 percent decline from the first quarter of 2018.

"We saw the start of a rebound in PC shipments in mid-2018, but anticipation of a disruption by CPU shortages impacted all PC markets as vendors allocated to the higher-margin business and Chromebook segment," said Mikako Kitagawa, senior principal analyst at Gartner. "While the consumer market remained weak, the mix of product availability may have also hindered demand. In contrast, Chromebook shipments increased by double digits compared with the first quarter of 2018, despite the shortage of entry-level CPUs. Including Chromebook shipments, the total worldwide PC market decline would have been 3.5 percent in the first quarter of 2019."

"The supply constraints affected the vendor competitive landscape as leading vendors had better allocation of chips and also began sourcing alternative CPUs from AMD," said Ms. Kitagawa. "The top three vendors worldwide were still able to increase shipments despite the supply constraint by focusing on their high-end products and taking share from small vendors that struggled to secure CPUs. Moreover, the constraints resulted in the top vendors shifting their product mix to the high-end segment in order to deal with the constraint — which, along with favorable component price trends, should boost profit margins."

The top three vendors — Lenovo, HP Inc. and Dell — accounted for 61.5 percent of global PC shipments in the first quarter of 2019, compared with 56.9 percent of shipments in the first quarter of 2018 (see Table 1). These top three vendors continued to gain share in the PC market as scale becomes a bigger factor in industry dynamics. Intel's CPU supply constraint accelerated this trend.

Preliminary Worldwide PC Vendor Unit Shipment Estimates for 1Q19 (Thousands of Units)

Company	1Q19 Shipments	1Q19 Market Share (%)	1Q18 Shipments	1Q18 Market Share (%)	1Q19-1Q18 Growth (%)
Lenovo	13,196	22.5	12,343	20.1	6.9
HP Inc.	12,826	21.9	12,727	20.7	0.8
Dell	9,989	17.6	9,841	16.0	1.5
Apple	3,977	6.8	4,078	6.6	-2.5
Asus	3,603	6.2	3,887	6.3	-7.3
Acer Group	3,322	5.7	3,829	6.2	-13.2
Others	11,610	19.8	14,671	23.9	-20.9
Total	**58,523**	**100.0**	**61,375**	**100.0**	**-4.6**

Notes: Data includes desk-based PCs, notebook PCs and ultramobile premiums (such as Microsoft Surface), but not Chromebooks or iPads. All data is estimated based on a preliminary study. Final estimates will be subject to change. The statistics are based on shipments selling into channels. Numbers may not add up to totals shown due to rounding.

Lenovo remained in the top spot in the first quarter of 2019 with the largest year-over-year growth among the top vendors. However, Lenovo benefited from the inclusion of Fujitsu's shipments from its 2Q18 joint venture. Lenovo's shipments increased in EMEA and Japan, where Fujitsu had a larger presence.

HP Inc.'s worldwide PC shipments increased 0.8 percent in the first quarter of 2019 versus the same period last year. The company saw an increase in desktop shipments while mobile PC shipments remained flat. HP Inc. recorded a small increase in shipments in EMEA, but experienced a decline in all other regions.

Dell recorded its fifth consecutive quarter of PC shipment growth in the first quarter of 2019. Dell increased PC shipments in EMEA, Latin America and Japan, but declined in North America and Asia/Pacific. Desktop PC shipments continued to be strong for Dell in all regions, showing Dell's strength in the business segment.

Business PC Demand Remained Strong

Business PC demand remained strong throughout the first quarter of 2019 across most key regions. The PC refresh driven by Windows 10 has been a driving force of business PC growth over the past three years, but Gartner forecasts that 2019 will be the last year in which shipments will be impacted by this refresh. "While PC shipment results in the first quarter of 2019 indicated that the business PC segment still showed strong demand, weak mobile PC results could be the indicator that the Windows 10 refresh has nearly peaked.

Regional Overview

In the U.S., PC shipments totaled 11 million units in the first quarter of 2019, a 6.3 percent decrease from the first quarter of 2018. HP Inc. took the top spot in the U.S. based on shipments, as its market share increased to 29.4 percent. Dell took the No. 2 position as its shipments declined 7.1 percent, and its market share totaled 28.7 percent in the first quarter of 2019 (see Table 2).

Preliminary U.S. PC Vendor Unit Shipment Estimates for 1Q19 (Thousands of Units)

Company	1Q19 Shipments	1Q19 Market Share (%)	1Q18 Shipments	1Q18 Market Share (%)	1Q19-1Q18 Growth (%)
HP Inc.	3,243	29.4	3.404	28.9	-4.7
Dell.	3,162	28.7	3,404	28.9	-7.1
Lenovo	1,497	13.6	1,619	13.7	-7.5
Apple	1,437	13.0	1,489	12.6	-3.5
Microsoft	449	4.1	458	3.9	-2.0
Others	1,237	11.2	1,400	11.9	-11.7
Total	**11,026**	**100.0**	**11,773**	**100.0**	**-6.3**

Notes: Data includes desk-based PCs, notebook PCs and ultramobile premiums (such as Microsoft Surface), but not Chromebooks or iPads. All data is estimated based on a preliminary study. Final estimates will be subject to change. The statistics are based on shipments selling into channels. Numbers may not add up to totals shown due to rounding.

Japan was the only region to experience PC shipment growth in the first quarter of 2019 with a 6.8 percent increase year over year. This was primarily driven by a surge in business PC shipments. Latin America experienced the largest decline in the quarter with a 16.6 percent decrease in PC shipments. This decline was due to a lack of stability in political and economic environments, as well as the CPU supply constraints, which severally impacted the small system builders in the region.

PC shipments in EMEA totaled 18 million units in the first quarter of 2019, a 2.2 percent decline year over year. Enterprise shipments increased as many companies moved ahead with Windows 10 deployments. However, consumer PC demand remained weak as users are not replacing older PCs and are not migrating to hybrid systems, which have not gained wide adoption in EMEA as users continue to prefer larger screens.

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Cloud IT Infrastructure Revenues Fell Below Traditional IT Infrastructure Revenues

Worldwide Quarterly Cloud IT Infrastructure Tracker, vendor revenue from sales of IT infrastructure products (server, enterprise storage, and Ethernet switch) for cloud environments, including public and private cloud, grew 28.0% year over year in the fourth quarter of 2018 (4Q18), reaching $16.8 billion. For 2018, annual spending (vendor revenue plus channel mark-up) on public and private cloud IT infrastructure totaled $66.1 billion, slightly higher (1.3%) than forecast in Q3 2018. IDC also raised its forecast for total spending on cloud IT infrastructure in 2019 to $70.1 billion – up 4.5% from last quarter's forecast – with year-over-year growth of 6.0%.

Quarterly spending on public cloud IT infrastructure was down 6.9% in Q418 compared to the previous quarter but it still almost doubled in the past two years reaching $11.9 billion in 4Q18 and growing 33.0% year over year, while spending on private cloud infrastructure grew 19.6% reaching $5.75 billion. Since 2013, when IDC started tracking IT infrastructure deployments in different environments, public cloud has represented the majority of spending on cloud IT infrastructure and in 2018 – as IDC expected – this share peaked at 69.6% with spending on public cloud infrastructure growing at an annual rate of 50.2%. Spending on private cloud grew 24.8% year over year in 2018.

In 4Q18, quarterly vendor revenues from IT infrastructure product sales into cloud environments fell and once again were lower than revenues from sales into traditional IT environments, accounting for 48.3% of the total worldwide IT infrastructure vendor revenues, up from 42.4% a year ago but down from 50.9% last quarter. For the full year 2018, spending on cloud IT infrastructure remained just below the 50% mark at 48.4%. Spending on all three technology segments in cloud IT environments is forecast to deliver slower growth in 2019 than in previous years. Ethernet switches will be the fastest growing at 23.8%, while spending on storage platforms will grow 9.1%. Spending on compute platforms will stay at $35.0 billion but still slightly higher than expected in IDC's previous forecast.

The rate of annual growth for the traditional (non-cloud) IT infrastructure segment slowed down from 3Q18 to below 1% but the segment grew 11.1% quarter over quarter. For the full year, worldwide spending on traditional non-cloud IT infrastructure grew by 12.2%, exactly as forecast, as the market has started going through a technology refresh cycle, which will wind down by 2019. By 2023, we expect that traditional non-cloud IT infrastructure will only represent 40.5% of total worldwide IT infrastructure spending (down from 51.6% in 2018). This share loss and the growing share of cloud environments in overall spending on IT infrastructure is common across all regions.

"The unprecedented growth of the infrastructure systems market in 2018 was shared across both cloud and non-cloud segments," said Kuba Stolarski, research director, Infrastructure Systems, Platforms and Technologies at IDC. "As market participants prepare for a very difficult growth comparison in 2019, compounded by strong, cyclical, macroeconomic headwinds, cloud IT infrastructure will be the primary growth engine supporting overall market performance until the next cyclical refresh. With new on-premises public cloud stacks entering the picture, there is a distinct possibility of a significant surge in private cloud deployments over the next five years."

All regions grew their cloud IT Infrastructure revenues by double digits in 4Q18. Revenue growth was the fastest in Canada at 67.2% year over year, with China growing at a rate of 54.4%. Other regions among the fastest growing in 4Q18 included Western Europe (39.7%), Latin America (37.9%), Japan (34.9%), Central & Eastern Europe and Middle East & Africa (30.9% and 30.2%, respectively), Asia/Pacific (excluding Japan) (APeJ) (28.5%), and the United States (15.5%).

Enterprises Today Are Technology Specific And Not Product

Muralidhar Kannan, CEO, Nisarga IT Solutions

Hyderabad based Nisarga IT Solutions offers a wide range of Open Source Software Development Service. The company claims that by offering perfect software, they cater to their client's requirements within the requested period of time. That way, the partner had gained vast clientele base by executing these services under minimum stipulated time. Nisarga IT Solutions provides cloud management and implementation services. Founded in 2012, the company boasts of having clients like SBI, Tata Tele Services, HP, Manipal Group, KPMG to name a few. The company's focus area in terms of cloud implementation is cloud Automation & Fine Tuning. Muralidhar Kannan, CEO of the company, speaks on the company's plans ahead.

What are the key industry verticals you are strong and what are the key services you provide value for them?

We successfully executed many projects across industry verticals like PSU Undertakings, Pharma, Healthcare and BFSI. Our key services include scanning and digitization and IT management services across all technology tiers – Infrastructure, Platform and Applications with special focus on Opensource software.

What are the key USP of your products/solutions and how you bring a differential factor for both OEMs and customers?

Business knowledge, Technology partners networks, transparency in business practices and support model.

How are the large enterprises and small companies are seeing IT these days? Is their preference for technology has increased?

Clients have moved from product-specific to technology specific. These days clients do not ask for brands but insist on getting solutions. To put it on the other way, these days, clients tell us their problem and we give them solutions regardless of the brand.

What are the industry verticals you are planning to expand?

While we have focused on various industries, we would like to have all industries as the key focus point. However, for the financial year ahead, our key focus areas would be IT/ITES, Manufacturing and Education.

Please explain your expansion plans of in terms of geography and team?

At this moment we are focussed more into consolidating our existing operations. Right now we are headquartered in Hyderabad and have branch offices in 2 metros – Chennai and Bangalore. Our total human resource is close to 60. For now, our focus will be only in South India. We are planning to have new certifications like ISO/CMMI to demonstrate our process standardization as we believe this will be our differential factor from other partner/resellers. We also want to focus more on Technology Specialization – Security, Storage, Backup, Migration, Virtualization and Solutions and Services – Cloud Services, Infrastructure Services, Data centre automation.

IT Investments In Rajasthan's Traditional Business Houses Evolving

Dhiraj Vijayvargia, CEO, Priyam infosystems,

Priyam infosystems, one of the long-timer in Rajasthan market proving end-to-end business solutions catering a variety of segments. Priyam

offers complete solutions that include consultancy, strategy, design, development, training, promotion, and management over and above the technology implications. This Jaipur based company create Customize Business Enhancement solutions on Tally.ERP and SAP Business one platform and has recently launched an integration and centralize software solution for the automobile dealerships /e-Commerce solution on Tally platform across India. Dhiraj Vijayvargia, CEO of the company speaks on the way Rajasthan is evolving in terms of technology adoption.

Being a leader in the Rajasthan market, what is your view on the technology adoption of companies in your region?

I see a significant change in technology adoption by enterprises in Rajasthan. Being in the business of helping enterprises for the last 24 years in core accounting, inventory, end-to-end ERP, data backups I see how their IT infrastructure has evolved from 3 computers with 40 GB hard drive. And 200 mb hard drive to their present infrastructure. The penetration of tech has improved in all possible ways. Earlier, the entire organization was having one computer for their operations. Now, thanks to the advent of high-speed internet, every organization is having a website, build an e-commerce platform. Business owners are having an awareness of what would be the best possible ways technology can grow their business.

According to you, what are the key industries that are making use of technology to the maximum?

While the IT adoption has increased overall across the industries, there are some like automobile, jewelry makers, handicraft companies, garment industry adopts technology to a great extent. In fact, their technology setup is of high quality compared to the past. Their IT infrastructure has grown along with its growth in export. Many industrialists from Rajasthan are migrating from India to various parts of the world. Thus, there is a need for technology and they cannot run their day-to-day operations without technology. With such pressures mount, they need to understand the technology and utilize it as much as possible.

What are the investments that are coming to Rajasthan and how much IT is expected to be a part of the growth plans?

In the recent past, there are plenty of investments that are happening around the government and the private sector. What is supportive is, the investment by governments in technology. The best example is the biggest data center of India is owned by the Government of Rajasthan. We also had an incubation center of superior quality for start-up. With the Government sector investing lot on IT, we feel the demand for technology will increase.

What are the key areas companies are investing in technology? (like a server, storage, cloud, ERP)

The key investments in IT are coming in two segments- Government and SMEs. The government investments are majorly on Cloud, Storage and Backup solutions. On the other hand, the SME investments are majorly on accounting, inventory, ERP and CRM. One of their major need today is to have an established ERP. Every SME today needs to have a quality ERP system in place. SMEs investing in multiple-computer, LAN, WAN environment, VPN networks and more. Enterprises are getting positive support reach in the region and they are expanding. Thus they want to invest on a cloud as they are multi folding their growth in E-commerce too.

While most of the companies in Jaipur are traditionally run-business, we hear that the next generation entering the business are depending heavily on technology?

These second or third generation business owners have a fair amount of technology educated and has been part of their life. Thus, rather than implementation, they also want to have a hands-on experience with respect to technology. Also, the availability of skilled resources are to be said another reason. Rajasthan and Jaipur, in particular, has well-educated students coming out every year.

Unlike their father or grandfathers, they did not learn business and then adopt a technology. They learn business along with technology and through technology. They are put the system in place and not people. I see many next generation business owners telling that system should run the business and not people. Companies are demanding for Tally with customization in place and some also start seeking SAP B1 ERP platform.

As far as technology is concerned, what is the key challenges enterprises in Jaipur are facing?

We face competition from Delhi and Mumbai. While we are getting business from the region, the challenge we face is that we lose business when it gets implemented in a national level. However, what could be a game changer is when we give the right consulting. In our case, being one of the oldest in the market, we had built the credibility by getting into the shoes of the clients and understanding their pain areas. Be it a small handicraft product or a company with 2 Thousand crore turn-over, we serve them as a trusted partner in all aspects.

What are your plans for the financial year?

This financial year, we are looking for being a complete end-to-end solution partner in the ERP space. We are building a good team and customer base for SAP Business one ERP. Besides this, we had developed our own ERP- BIZ21 which the integrated ERP with Tally caters end to end manufacturing process with HR/HRMS/CRM/Payroll etc, also an application for the automobile industry. We are betting big in that space and we are planning to take the advance solutions to the automotive retailers across India.

MCAFEE NAMES SANJAY MANOHAR AS MANAGING DIRECTOR FOR INDIA

McAfee, the device-to-cloud cybersecurity company, today announced the appointment of San-

jay Manohar as managing director, India. He will be responsible for building and leading teams to drive product revenues, increase adoption of cloud-based products, strengthen customer relationships and execute on McAfee's mission to keep the world safe from emerging cyberthreats. He will report directly to Craig Nielsen, vice president, APAC, McAfee.

Sanjay brings over 25 years of proven industry experience spanning leadership roles across the APAC region. His career has been marked by continuous growth and recognition in marketing, sales and channel strategy. His core strengths include go-to-market strategy and execution, supplemented by his expertise in the areas of SaaS, enterprise software and networking.

Commenting on Sanjay's appointment, Craig Nielsen said, "Sanjay will work closely with our leadership team to further accelerate our growth in India, which is a strategic market for McAfee globally. He joins us at a time when enterprises are realizing the significance of cybersecurity and making it a part of their boardroom discussions. His extensive knowledge of the industry and the region will help our customers find the best solutions for optimizing their security infrastructure, reducing risk and increasing operational efficiencies."

"There is an increasing need today for robust cybersecurity protection for both enterprises and individuals with the fast-evolving threat landscape. I look forward to helping customers address this challenge and I'm pleased to join McAfee which remains committed to making the connected world more secure while being a trusted partner for all our stakeholders across the region," said Sanjay Manohar.

Prior to McAfee, Sanjay held roles as regional vice president – Asia Pacific Japan, Carrier Business at Akamai Technologies, and MD of the Greater China region spearheading a cross-functional team of over 100 employees across 5 offices. Sanjay has been associated with leading MNCs when the industry was at the cusp of cloud offerings for businesses.

He holds an MBA from Bharathidasan Institute of Management, a Bachelor of Science degree from Bangalore University and is an alumnus of the Rashtriya Military School, Bangalore.

How CIOs In Chennai evaluate Channel Partners?

Vijay Anand

Chennai is one of the key markets for manufacturing, automobile, and ITeS. As a market, Chennai has always welcomed newer technologies and has experimented it. Vijay Anand, a long-timer in the Chennai market with 20 years of IT Infrastructure & Information Security experience in the areas of IT Operation, Digital Technologies, Cloud Infrastructure, Service and Support,Project Management,Governance, Risk Management, and compliance in multiple industry verticals like Healthcare/IT/ITES & E-Commerce . speaks on what the CIOs from Chennai expects from the partners serving them. Edited excerpts.

What are the unique aspects of Chennai as a market?

Chennai is predominantly a hub for Manufacturing and ITES companies. Chennai has some of the best colleges in India and churns out a decent number of qualified graduates. Local talent is available in plenty in Chennai. Also, the cost of living here is moderate when compared to other metros and is also a safer place to live. With its affordable real estate cost footprint, it has become a viable place for industries to invest.

What are the key qualities IT heads from Chennai look at while selecting a channel partner?

While there are many qualities which we, the CIOs in Chennai look at, majorly we look at how the channel partners communicate on focused products. We also look at their local presence, service delivery mechanism, and support delivery mechanism. Also, we focus on their financial stability and internal technical team capabilities.

How is the decision-making cycle happens in Chennai? (fast or delay)

In Chennai, I had noticed the decision-making cycle differing from one organization to another. I feel the decision making cycle depends purely on the organization culture. In Multi-National Companies, an annual budget is approved and the IT department does not need to seek approvals every time. Vendors are selected from the approved list and procurement is done. In general, most of the traditional companies, the decision is made whenever a need arises. Thus there might be a delay in procurement and planning.

You say pricing is the last consideration point. Please justify as many think that price is the only factor that differentiates them with others?

Of course, price is an important factor. However, most of us feel product suitability and functionality are highly important. Rather than choosing 'the best product at the best price', it is prudent to choose 'the right product at the right price'. Also dealing with the OEM's directly will avoid price manipulation. With new deployments, there are a lot of technical roll-out issues. Thus, choosing the right partner with key technical resources, the implementation cost also varies. Thus we will not mind spending additional cost provided if the right service is obtained.

How is the awareness of technology among the top management and business owners of organizations in Chennai? What your peers from other regions say on that?

For the past two or three decades, technology has been slowly embedded in daily life and top management in all companies are getting tech-savvy to a certain level. There is hardly anyone who cannot understand the basic technologies. As top management cannot ignore technology, as most of their works are dependent on technology today. Thus, over the years, such working experiences helps. They are also constant learners as technology has become a part of their routine life.

What are the tips you would like to give for any channel partner serving the customers in Chennai? How can they win the confidence of the IT heads like you?

In my view, some of the key things a partner should keep in mind while dealing with IT heads in Chennai organizations are consistent support and delightful customer experience. Also, the channel partners should ensure that there is constant communication to the CIOs on new areas of technology. Understanding the customers pain-areas and pitching the right solutions will win confidence. And I think, that is why they are called partners and not vendors or suppliers.

Finally, in general, a channel partner having an established organization or HQ in Chennai is given preference or even partners who can serve remote will also be considered?

Partners with presence in Chennai is preferred mostly irrespective of where their Head office. For certain key deployments, when we are unable to find any good local support in Chennai, we do work with remote partners also. However, in most cases, Chennai IT heads prefer the local presence because of security and various other concerns.

Ecosystem To Enable Next Gen Edge AI And Machine Learning For Cameras

Jeffery Torrance, Vice president, business development, Qualcomm Technologies, Inc.

Qualcomm Technologies, Inc., a subsidiary of Qualcomm Incorporated announced today at the International Security Conference & Exposition, broad ecosystem support for the Qualcomm®Vision Intelligence Platforms. Leading OEMs, ODMs and ecosystem collaborators have integrated the platforms to deliver powerful computing for edge and on-device camera processing and machine learning, with exceptional thermal efficiency, across a wide range of IoT applications.

"Leveraging the power and security of our application processor technology, we are bringing our platform solutions together with a broad base of customers and building a camera ecosystem to drive the exciting evolution of connected, intelligent cameras," said Jeffery Torrance, vice president, business development, Qualcomm Technologies, Inc. "Today's cameras require superior connectivity and interoperability, powerful heterogeneous computing and AI capability and protections for security and privacy – all of which Qualcomm Technologies is uniquely suited to provide. New applications for vision intelligence are popping up almost daily, and we now have the ecosystem in place to make it easy for customers to bring differentiated technology to fruition more rapidly, with products that will further fuel the invention age in IoT."

For AI and machine learning uses such as tracking, identification and classification of people, objects, and sounds the Qualcomm Vision Intelligence 400 & 300 Platforms use the latest purpose-built QCS605 and QCS603 SoCs that include:

- Integrated advanced image signal processor (ISP) and the Qualcomm®Artificial Intelligence (AI) Engine
- Heterogeneous compute architecture, including a cutting-edge ARM-based multicore Qualcomm® Kryo™ CPU, Qualcomm® Hexagon™ DSP with a vector accelerator and Qualcomm® Adreno™ GPU.

These chipsets are ideal for running machine learning and other edge compute use cases that require video processing and analytics support, with real-time stitching for simultaneous multi-video streams while running concurrent applications.

The platform series also integrates proven connectivity, superior audio and hardware-based security to support the development of IoT devices with advanced security features and includes:

- Android™ and Linux-based software platforms and advanced camera software development kits (SDKs) are optimized to support exciting new possibilities for enterprise, industrial, and consumer applications

"We are really just scratching the surface, and the variety of applications and possibilities are enormous, including smart security cameras, sports cameras, wearable and body cameras, robotics, inventory management, smart displays, dash cams and many more," continued Torrance.

Stronger Second Half of 2018 in Worldwide PC Monitor Market

The worldwide market for PC monitors experienced an overall year-over-year decline of 2.1% in the fourth quarter of 2018 (4Q18). However, quarterly growth remained unchanged with worldwide monitor shipments totaling 31.4 million units in 4Q18, according to the International Data Corporation (IDC) Worldwide Quarterly PC Monitor Tracker.

"After four consecutive quarters of annual growth, the monitor market contracted slightly in the fourth quarter," said Linn Huang, research vice president, Devices & Displays. "Yet, the moderate global decline could be misleading given that seven of the top nine country markets by shipments grew 4.7% in aggregate, while the largest country market (China) and the fifth largest (India) declined 10.3% in aggregate. India is expected to recover sooner given that inventory has been a major drag there. In China, continued poor macroeconomic trends are projected to keep the monitor market soft there."

IDC currently forecasts 118 million PC monitor units will be shipped for the full year 2019, resulting in a year-over-year decline of 2.7% in worldwide shipments to 30.5 million units in the fourth quarter of 2019. By 2020, worldwide shipments are expected to be roughly 114 million units as the adoption of mobile devices at lower price points is expected to continue.

Technology Highlights

- Curved monitors grew 15.4% quarter over quarter and 27.1% year over year in 4Q18 with 6.2% market share in 4Q18. This positive growth trend will continue as more vendors enter the curved space.
- 21.5-inch and 23.8-inch wide monitors continue to dominate the worldwide market with 21.7% and 17.8% market share respectively in 4Q18. Of the top 10 screen sizes, 23.8-inch and 27-inch wide saw the largest year-over-year growth at 40.6% and 17.2%, respectively, in 4Q18.
- Monitors with TV tuners held 3.0% market share in 4Q18, down from 4.8% in 4Q17, led by LG and Samsung with a combined market share of 99.3% in this category.

Vendor Highlights

- Dell retained the top position in 4Q18 with worldwide market share of 21.6% on shipments of over 6.7 million units. The vendor posted strong year-over-year growth in Japan (33.4%), Central & Eastern Europe (26.7%), and Western Europe (23.6%). The largest growing screen sizes year-over-year included 31.5-inch and 37.5-inch wide.
- HP saw more than 4.5 million units shipped resulting in 14.6% share in 4Q18. Substantial year-over-year unit increases were posted in Japan (9.3%) and Latin America (24.7%), which contributed to a total year-over-year increase of 1.5%.
- Lenovo maintained its top 3 position with solid quarter-over-quarter growth of 4.3% and nearly 4 million units shipped. This was largely due to significant quarter-over-quarter growth in Latin America (52.9%) and Canada (16.5%). In terms of screen size growth, 27-inch & 23.8-inch wide monitors dominated with 141.4% & 115% year-over-year growth, respectively.
- TPV experienced both year-over-year (-5.6%) and quarter-over-quarter (-13.2%) declines in 4Q18. However, noteworthy gains were made in their second best-selling region, Western Europe, with 2.4% year-over-year growth and 33.1% quarter-over-quarter growth.
- LG Electronics rounded out the Top 5 in 4Q18 with 2.5 million units shipped. Despite a year-over-year decline of 8.5%, the vendor witnessed year-over-year gains in the United States, Canada, and Central & Eastern Europe.

Top 5 PC Monitor Companies by Shipment Volume, Market Share, and Year-Over-Year Growth, Q4 2018

Company	4Q18 Shipments	4Q18 Market Share	4Q17 Shipments	4Q17 Market Share	Year-over-Year Growth
1. Dell	6,784,411	21.6%	6,129,992	19.1%	10.7%
2. HP Inc.	4,573,262	14.6%	4,504,032	14.0%	1.5%
3. Lenovo	3,997,994	12.7%	4,095,048	12.8%	-2.4%
4. TPV	3,719,124	11.8%	3,940,049	12.3%	-5.6%
5. LG Electronics	2,576,972	8.2%	2,816,612	8.8%	-8.5%
Others	9,757,976	31.1%	10,613,009	33.0%	-8.1%
Total	**31,409,739**	**100.0%**	**32,098,742**	**100.0%**	**-2.1%**

Source: IDC Worldwide Quarterly PC Monitor Tracker, March 2019

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