

High-powered performance featuring 12Gb/s SAS for midrange storage market

# Latest SAS 3.0 technology for expandability and performance

- 12Gb/s SAS interface on client and drive sides
- 12 Gb/s SAS doubling the previous 6Gb/s transfer speed

#### **Leading performance**

- 11,000MB/s seq. read
- 4,200MB/s seq. write
- Up to 1.5M IOPS
- Massive throughput gets you ready for 4K media and beyond

#### Flexible interface options

- Dual host boards per controller, for extra connectivity
- Mixed FC, SAS, iSCSI and FCoE
- Massive performance gain

#### Wide scalable

- Connection with SAS 12Gb/s JBOD
- Dual SAS 12Gb/s expansion ports to maximize throughput
- Up to 444 drives per system
- Compatible JBODs in different form factors

#### SSD optimized

- SSD Cache and automated storage tiering
- SSD drive wear indication

#### **Emergency backup power**

- Super capacitors with flash module
- Cache data backup to flash module during power outage
- Long lasting and maintenance-free

EonStor DS 4000 systems deliver top-notch performance in their segment, bringing unmatched power to businesses and enterprises. With their unique dual host board design and 12Gb/s SAS interfaces to internal SAS or SATA disk drives, EonStor DS 4000 systems reach a massive throughput accommodating even highly demanding storage network workloads such as media editing. At the same time, EonStor DS 4000 systems maintain strict backwards compatibility with legacy interconnects for easy deployment in diverse environments. They are extremely scalable and provide access to advanced data services such as SSD Cache, automated storage tiering, and self-encrypting drives.

#### Native support for 12Gb/s SAS: host and drive side

The 12Gb/s SAS interface offers a low latency pathway without compromising performance due to delays or bandwidth limits. On EonStor DS 4000 systems, 12Gb/s SAS has been implemented for client interfacing and importantly for drives. It features built-in connection scaling, adapting to different capacities and adjusting actual connection bandwidth based on real time loads. Users benefit from a better cost-performance ratio with 12Gb/s SAS, gaining improved return on investment.

## Massive performance makes EonStor DS 4000 system perfect for media industry

Thanks to optimized design and advanced processing power, EonStor DS 4000 systems can easily handle even very intense networked storage demands. They are capable of up to 1.3M IOPS, with a sequential read throughput of up to 11,000MB/s and a sequential write throughput of as much as 4,200MB/s. These are unprecedented performance figures for mid-range storage, and ensure users are prepared to take on IT challenges for years to come without frequent hardware replacement.

Leading performance turns EonStor DS 4000 systems into productivity-boosting hubs for multiple 2K resolutions and 4K resolutions streams in media industry, with no slowdown or lag experienced thanks to their ample processing power and storage bandwidth. Strong performance means smooth service to large workforces.

#### EonStor DS 4000 system features dual host boards per controller

Innovative design places two host boards side by side on EonStor DS 4000 systems, unlocking higher levels of flexibility and performance. Whereas most storage systems feature a single host board, the EonStor DS 4000 series multiplies connectivity, versatility, and performance with two host boards. It enables different combinations of Fibre Channel (up to 16Gb/s), SAS (up to 12Gb/s), and iSCSI (up to 10Gb/s). Each host board can also support hybrid interfaces, effectively quadrupling connectivity. This groundbreaking feature is very unique for mid-range enterprise storage and offered at extremely competitive pricing.

### EonStor DS 4000 series

#### Data and security services

- Compatible with selfencrypting drives (SEDs)
- Secure remote replication
- Intelligent Drive Recovery (IDR) media scan and error correction
- Snapshot, thin Provisioning, and more

#### **User friendly**

- Intuitive SANWatch and RAIDWatch interfaces
- Command line interface customization
- User friendly yet sophisticated UI with full access to features

#### Green design

- Redundant 80 PLUS power supplies
- Accommodate 2.5" and 3.5" drives (hybrid tray)
- Intelligent drive and fan spindown

#### Wide scalability with support for 12Gb/s JBOD connections

EonStor DS 4000 products feature two 12Gb/s SAS ports for connecting to compatible Infortrend JBOD expansion enclosures. The 12Gb/s SAS interface doubles connection speeds to JBODs compared to previous generation EonStor DS systems, and having two ports makes connecting multiple enclosures easier and less messy in terms of cabling. Due to the doubled connectivity and high performance of the EonStor DS 4000 series, users can have up to 436 drives per system.

#### **Fully optimized for SSD**

The storage industry is moving to high speed, reliable, and efficient solid state drives, and the EonStor DS 4000 series is future-ready. In addition to hybrid drive trays (2.5"/3.5"), systems support a range of SSD-focused software solutions. Self-managing SSD Cache autonomously allocates the hottest data to a high speed cache pool with up to 16X more read IOPS and 88% lower latency. SSD Cache has no performance penalty. It is complemented by automated storage tiering (up to 4-level), which also sorts data and places it in different tiers based on tenure and access frequency. Tiering leverages the advantages of each drive type: SSD and SAS speed for essential data, NL-SAS and SATA capacity for archived media. To protect investment in SSDs, systems feature intelligent SSD wear level indication with real time health monitoring. Users can keep an eye on drives and pre-empt possible failure, thus avoiding data loss.

#### **Emergency backup power safeguards data**

Protecting against data loss due to prolonged power outages, EonStor DS 4000 systems include super capacitors paired with a flash module. If power fails, data is written to the flash cache and kept powered by the super capacitors for extended periods of time. Super capacitors require no maintenance and last for the life of the storage system, making them a very convenient and cost effective emergency backup measure.

#### Comprehensive data and security services

All EonStor DS 4000 products support self-encrypting drives, or SEDs, which arrive factory-secured against even the most direct physical intrusion. SEDs defend against data theft and misplacement and make deletion much faster than traditional methods, as invalidating the key renders all data on the drive permanently unreadable.

For disaster recovery, the EonStor DS 4000 series supports secure remote replication. Local replication is offered via snapshot and volume copy/mirror. Thin provisioning is standard, and all data is covered by smart media scan and IDR (Intelligent Drive Recovery) technology, which detects faulty sectors and quickly clones affected data to prevent loss, even due to silent errors that would go unnoticed by other storage systems. Every feature is easily accessible from the user friendly SANWatch browser-based interface.











## Technical Specifications

| Model name   | DS 4016R   | DS 4016S  |  |  |
|--|--|---|--|--|
| Form factor  |  | 3U 16-bay LFF   |  |  |
| Storage controller   | Dual-redundant   | Single upgradable to redundant  |  |  |
| Max. host ports (per system)   | 20 ports   | 10 ports  |  |  |
| Host connectivity (per controller)   | Host board 1:  | 2 x 16Gb FC ports<br>2 x 12Gb SAS ports<br>2/4 x 10Gb iSCSI ports (SFP+) <sup>1</sup><br>4 x 8Gb FC ports <sup>1</sup><br>4 x 10Gb FCoE ports <sup>1</sup>  |  |  |
|  | Host board 1+Host board 2  | $2 \times 16 \text{Gb}$ FC ports $+ 2 \times 16 \text{Gb}$ FC ports $2 \times 12 \text{Gb}$ SAS ports $+ 2 \times 12 \text{Gb}$ FC ports $+ 2 \times 12 \text{Gb}$ FC ports $+ 2 \times 12 \text{Gb}$ SCSI ports $+ 2 \times 12 \text{Gb}$ SC |  |  |
| Onboard iSCSI ports (per controller)   | 2 x 1Gb/ iSCSI port  |   |  |  |
| Cache memory (per controller)  | 2GB, 4GB, 8GB, 16GB  |   |  |  |
| Max. drives (per system)   | 16   |   |  |  |
| Max. drives (via expansion enclosures)   | 436  |   |  |  |
| Expansion enclosure (JBOD)   | JB 3016<br>JB 3060 <sup>5</sup>  |   |  |  |
| SAS expansion ports (per controller)   | 2 x 12Gb/ SAS port   |   |  |  |
| Cache backup techniques  | Super capacitor + Flash module   |   |  |  |
| Supported drives <sup>2</sup>  | • 2.5" SATA/SAS SSD<br>• 2.5" 10K/15K RPM SAS HDD<br>• 3.5" 7200 RPM NL SAS HDD  |   |  |  |
|  | Power supply: Two redun  | dant 530W; Voltage and Frequency: 100-240 Vac, 50-60Hz  |  |  |
| Power & Cooling  | Power consumption: 338<br>Heat dissipation(BTU/hour  | Power consumption: 250<br>): 1259 Heat dissipation(BTU/hour): 1259  |  |  |
| Green design   | *80 PLUS power supplies delivering more than 80% energy efficiency     Intelligent multi-level drive spin-down   |   |  |  |
| RAID configurations  | RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60  Up to 32 logical drives and 64 par titions per logical volume  Up to 2048 LUNs  |   |  |  |
| Regulatory <sup>3</sup>  | Safety: UL, BSMI, CB, EAC     Electromagnetic Compatibility: CE, BSMI, FCC, KC   |   |  |  |
| Data Service   |  |   |  |  |
| Local Replication  |  | napshot images per source volume Standard License: 64 / Advanced License: 256 napshot images per system Standard License: 128 / Advanced License: 4096  |  |  |
| (Standard license is defult included and advanced is an optional license)  | Volume Copy/Mirror S   | ource volumes per system eplication pairs per system standard License: 16 / Advanced License: 32 Standard License: 4 / Advanced License: 8 Standard License: 64 / Advanced License: 256   |  |  |
| Thin Provisioning (default included)   | " Just-in-time" capacity a   | llocation optimizes storage utilization and eliminates allocated but unused storage space   |  |  |
| Self-encrypting drives   | Unique factory encryption  | secures data plus makes deletion simple and complete  |  |  |
| Remote Replication (optional licesne)  | Replication per source volume: 16 Replication pairs per source volume: 4 Replication pairs per system: 64  |   |  |  |
| Automated Storage Tiering<br>(optional license)  | Two(2) or four(4)storage t<br>SSD supports   | iers based on drive types   |  |  |
| SSD Cache<br>(optional license)  | Accelerating data access for random read-intensive environments, such as OLTP     Supports up to four SSDs per controller     Recommended DIMM capacity per controller for SSD Cache pool:  DRAM:2GB Max SSD Cache Pool Size: 150GB DRAM:4GB Max SSD Cache Pool Size: 400GB DRAM:8GB Max SSD Cache Pool Size: 800GB DRAM:16GB Max SSD Cache Pool Size: 1,600GB |   |  |  |
| Availability and Reliability   | Redundant, hot-swappable hardware modules Multi-pathing support (EonPath); Device mapper support Cache backup technology: protects cached data during power outage by flushing data into flash memory Port trunking / link aggregation (IEEE 802.3ad), fail-over, jumbo frame  |   |  |  |
| Management   | SANWatch management  | suite; Embedded RAIDWatch; Terminal via RS-232C; Telnet/SSH   |  |  |
| Notification   | Email, Fax, LAN broadcast, SNMP traps, SMS   |   |  |  |
| OS support   | Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2, Microsoft Windows Hyper-V, Red Hat Enterprise, Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer, OpenStack Cinder   |   |  |  |
| Service and support <sup>4</sup>   | Standard service   | 3-year limited hardware warranty and 8x5 phone, web, and email support (Batteries are covered und warranty for 2 years)   |  |  |
|  | Upgrade/extension option   | Replacement part dispatch on the next business day (up to 5 years) Advanced service: 24x7 phone, web, and email support + onsite diagnostics on the next business day (up to 5 years) Premium service: 24x7 phone, web, and email support + onsite diagnostics in 4 hours (up to 5 years) Extended standard service up to 5 years   |  |  |
| 1. 4-port 10Gb iSCSI, 4-port 8Gb FC, 2-port 160 in Q4 2015) 2.For the latest compatibility details, refer to our | •  | board. (FCoE will be released  3. Check with your local sales representative for complete details.  4. All EonStor DS systems ship with standard service. Extended service terms may vary by region   |  |  |

### High IOPS Solutions

| Model name  | DS 4016RT  |  | DS 4016ST   |  |
|---|--|--|---|--|
| Form factor   |  | 3U 16-bay LFF  |   |  |
| Storage controller  | Dual-redundant   |  | Single upgradable to redundant  |  |
| Max. host ports (per system)  | 20 ports   |  | 10 ports  |  |
| Host connectivity (per controller)  | Host board 1   | 2 x 16Gb FC ports<br>2 x 12Gb SAS ports<br>2/4 x 10Gb iSCSI ports (SFP+) <sup>1</sup><br>4 x 8Gb FC ports <sup>1</sup><br>4 x 10Gb FCoE ports <sup>1</sup>   |   |  |
|   | Host board 1<br>+<br>Host board 2  | $2/4 \times 10$ Gb iSCSI ports (SFP+) <sup>1</sup> + $2 \times 1$<br>$4 \times 8$ Gb FC ports <sup>1</sup> + $4 \times 8$ Gb FC ports<br>$2/4 \times 10$ Gb iSCSI ports (SFP+) <sup>1</sup> + $2/4 \times 10$ Gb FCoE ports <sup>1</sup> + $4 \times 10$ Gb FCoE | $2 \times 12$ Gb SAS ports + $2 \times 12$ Gb SAS ports<br>$2/4 \times 10$ Gb iSCSI ports (SFP+) $^1$ + $2 \times 16$ Gb FC ports                                       |  |
| Onboard iSCSI ports (per controller)  | 2 x 1Gb/ iSCSI port  |  |   |  |
| Cache memory (per controller)   | 2GB, 4GB, 8GB, 16GB  |  |   |  |
| Max. drives (per system)  |  | 16   |   |  |
| Max. drives (via expansion enclosures)  | 436  |  |   |  |
| Expansion enclosure (JBOD)  |  | JB 3016<br>JB 3060 ⁵   |   |  |
| SAS expansion ports (per controller)  |  | 2 x 12Gb/ SAS port   |   |  |
| Cache backup techniques   |  | Super capacitor + Flash m  | nodule  |  |
| Supported drives <sup>2</sup>   | 2.5" SATA/SAS SSD     2.5" 10K/15K RPM SAS HDD     3.5" 7200 RPM NL SAS HDD  |  |   |  |
|   | Power supply: Two red  | ndant 530W; Voltage and Frequency: 100-2   | 40 Vac, 50-60Hz   |  |
| Power & Cooling   | Power consumption: 33  |  | Power consumption: 250<br>Heat dissipation(BTU/hour): 1259  |  |
| Green design  | Heat dissipation(BTU/hour): 1259  •80 PLUS power supplies delivering more than 80% energy efficiency •Intelligent multi-level drive spin-down  |  |   |  |
| RAID configurations   | • RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60<br>• Up to 32 logical drives and 64 par titions per logical volume<br>• Up to 2048 LUNs  |  |   |  |
| Regulatory <sup>3</sup>   | Safety: UL, BSMI, CB, EAC     Electromagnetic Compatibility: CE, BSMI, FCC, KC   |  |   |  |
| Data Service  |  |  |   |  |
| Local Replication<br>(Standard license is defult included<br>and advanced is an optional license) | Snapshot   | Snapshot images per system St  | tandard License: 64 / Advanced License: 256<br>tandard License: 128 / Advanced License: 4096  |  |
|   | Volume Copy/Mirror   | Replication pairs per source volume S  | tandard License: 16 / Advanced License: 32<br>Standard License: 4 / Advanced License: 8<br>tandard License: 64 / Advanced License: 256                                  |  |
| Thin Provisioning (default included)  | " Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space  |  |   |  |
| Self-encrypting drives  | Unique factory encrypt   | on secures data plus makes deletion simple   | and complete  |  |
| Remote Replication (optional licesne)   | Replication per source volume: 16<br>Replication pairs per source volume: 4<br>Replication pairs per system: 64  |  |   |  |
| Automated Storage Tiering   | ( )  | e tiers based on drive types   |   |  |
| (optional license)  SSD Cache (optional license)  | SSD supports     Accelerating data access for random read-intensive environments, such as OLTP     Supports up to four SSDs per controller     Recommended DIMM capacity per controller for SSD Cache pool:  DRAM:2GB    Max SSD Cache Pool Size:150GB                                 |  |   |  |
| Availability and Reliability  | Redundant, hot-swappable hardware modules<br>Multi-pathing support (EonPath); Device mapper support<br>Cache backup technology: protects cached data during power outage by flushing data into flash memory<br>Port trunking / link aggregation (IEEE 802.3ad), fail-over, jumbo frame |  |   |  |
| Management  | SANWatch management suite; Embedded RAIDWatch; Terminal via RS-232C; Telnet/SSH  |  |   |  |
| Notification  | Email, Fax, LAN broadcast, SNMP traps, SMS   |  |   |  |
| OS support  | Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2 , Microsoft Windows Hyper-V, Red Hat Enterprise, Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer, OpenStack Cinder  |  |   |  |
| Service and support <sup>4</sup>  | Standard service   | 3-year limited hardware warranty ar<br>(Batteries are covered under warrar   | nd 8x5 phone, web, and email support  |  |
|   | Upgrade/extension opt  | Replacement part dispatch on the n<br>Advanced service: 24x7 phone, wet<br>ons (up to 5 years)   | ext business day (up to 5 years) b, and email support + onsite diagnostics on the next business day , and email support + onsite diagnostics in 4 hours (up to 5 years) |  |

<sup>1. 4-</sup>port 10Gb iSCSI, 4-port 8Gb FC, 2-port 16Gb FC and 4-port four-in-one host board. (FCoE will be released in Q4 2015)
2. For the latest compatibility details, refer to our official website for the latest EonStor DS Compatibility Matrix.
3. Check with your local sales representative for complete details.
4. All EonStor DS systems ship with standard service. Extended service terms may vary by region.
5. Available in Q3 2015.

## High IOPS Solutions

| Model name  | DS 4024RTI   | 3  | DS 4024STB   |  |  |
|---|--|--|--|--|--|
| Form factor   |  | 2U 24-bay SFF  | 2U 24-bay SFF  |  |  |
| Storage controller  | Dual-redundant   | Single upgradable to redundant   |  |  |  |
| Max. host ports (per system)  | 20 ports   |  | 10 ports   |  |  |
| Host connectivity (per controller) <sup>5</sup>                           | Host board 1   | 2 x 16Gb FC ports<br>2 x 12Gb SAS ports<br>2/4 x 10Gb iSCSI ports (SFP+) '<br>4 x 8Gb FC ports '<br>4 x 10Gb FCoE ports '  |  |  |  |
|   | Host board 1<br>+<br>Host board 2  | 2 x 16Gb FC ports + 2 x 16Gb FC ports<br>2 x 12Gb SAS ports + 2 x 12Gb SAS ports<br>2/4 x 10Gb iSCSI ports (SFP+) $^1$ + 2 x 16Gb FC ports<br>4 x 8Gb FC ports $^1$ + 4 x 8Gb FC ports<br>2/4 x 10Gb iSCSI ports (SFP+) $^1$ + 2/4 x 10Gb iSCSI ports(SFP+) $^1$<br>4 x 10Gb FCoE ports $^1$ +4 x 10Gb FCoE ports $^1$<br>2/4 x 10Gb iSCSI ports (SFP+) $^1$ + 4 x 8Gb FC ports $^1$ |  |  |  |
| Onboard iSCSI ports (per controller)                                      | 2 x 1Gb/ iSCSI port  |  |  |  |  |
| Cache memory (per controller)   | 2GB, 4GB, 8GB, 16GB  |  |  |  |  |
| Max. drives (per system)  | 24   |  |  |  |  |
| Max. drives (via expansion enclosures)                                    | 444  |  |  |  |  |
| Expansion enclosure (JBOD)  | JB 3016<br>JB 3024B<br>JB 3060 <sup>5</sup>  |  |  |  |  |
| SAS expansion ports (per controller)                                      | 2 x 12Gb/ SAS port   |  |  |  |  |
| Cache backup techniques   | Super capacitor + Flash module   |  |  |  |  |
| Supported drives <sup>2</sup>   | • 2.5" SATA/SAS SSD<br>• 2.5" 10K/15K RPM SAS HDD  |  |  |  |  |
| Power & Cooling   | Power consumption: 313   |  | Power consumption: 238   |  |  |
| Green design  | Heat dissipation(BTU/hour): 761  • 80 PLUS power supplies delivering more than 80% energy efficiency • Intelligent multi-level drive spin-down   |  |  |  |  |
| RAID configurations   | <ul> <li>RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60</li> <li>Up to 32 logical drives and 64 par titions per logical volume</li> </ul>   |  |  |  |  |
| Regulatory <sup>3</sup>   | Up to 2048 LUNs     Safety: UL, BSMI, CB, EAC     Electromagnetic Compatibility: CE, BSMI, FCC, KC   |  |  |  |  |
| Data Service  | · Liectioniagnetic com   | patibility . GE, DSIMI, 1 GG, NO   |  |  |  |
| Local Replication   | Snapshot   | Snapshot images per source volume<br>Snapshot images per system  | Standard License: 64 / Advanced License: 256<br>Standard License: 128 / Advanced License: 4096   |  |  |
| (Standard license is defult included and advanced is an optional license) | Volume Copy/Mirror   | Source volumes per system<br>Replication pairs per source volume<br>Replication pairs per system   | Standard License: 16 / Advanced License: 32<br>Standard License: 4 / Advanced License: 8<br>Standard License: 64 / Advanced License: 256                                       |  |  |
| Thin Provisioning (default included)                                      | " Just-in-time" capacity   | allocation optimizes storage utilization a   | and eliminates allocated but unused storage space  |  |  |
| Self-encrypting drives  |  | on secures data plus makes deletion sim  | • •  |  |  |
| Remote Replication (optional licesne)                                     | Replication pairs per source volume: 16 Replication pairs per system: 64   |  |  |  |  |
| Automated Storage Tiering (optional license)                              | Two(2) or four(4)storage tiers based on drive types SSD supports   |  |  |  |  |
| SSD Cache<br>(optional license)   | Accelerating data access for random read-intensive environments, such as OLTP     Supports up to four SSDs per controller     Recommended DIMM capacity per controller for SSD Cache pool:  DRAM:2GB    Max SSD Cache Pool Size:150GB  |  |  |  |  |
| Availability and Reliability  | Redundant, hot-swappable hardware modules<br>Multi-pathing support (EonPath); Device mapper support<br>Cache backup technology: protects cached data during power outage by flushing data into flash memory<br>Port trunking / link aggregation (IEEE 802.3ad), fail-over, jumbo frame |  |  |  |  |
| Management  | SANWatch management suite; Embedded RAIDWatch; Terminal via RS-232C; Telnet/SSH  |  |  |  |  |
| Notification  | Email, Fax, LAN broadcast, SNMP traps, SMS   |  |  |  |  |
| OS support  | Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2 , Microsoft Windows Hyper-V, Red Hat Enterprise, Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer, OpenStack Cinder  |  |  |  |  |
|   | Standard service   | 3-year limited hardware warranty<br>(Batteries are covered under warr  | and 8x5 phone, web, and email support  |  |  |
| Service and support <sup>4</sup>  | Upgrade/extension opti   | Replacement part dispatch on the<br>Advanced service: 24x7 phone, w<br>ons (up to 5 years)<br>Premium service: 24x7 phone, we  | enext business day (up to 5 years) reb, and email support + onsite diagnostics on the next business day reb, and email support + onsite diagnostics in 4 hours (up to 5 years) |  |  |
| 1. 4-port 10Gb iSCSI, 4-port 8Gb FC, 2-port 16G                           | Gb FC and 4-port four-in-one ho  | Extended standard service up to 5 st board be released 3. Check with   | your local sales representative for complete details.  |  |  |

4-port 10Gb iSCSI, 4-port 8Gb FC, 2-port 16Gb FC and 4-port four-in-one host board be released in 03 2015.
 For the latest compatibility details, refer to our official website for the latest EonStor DS Compatibility Matrix.

<sup>3.</sup> Check with your local sales representative for complete details.
4. All EonStor DS systems ship with standard service. Extended service terms may vary by region.
5. 10Gb iSCSI host board is available in Q3 2015.





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