Data Sheet

Fujitsu Server PRIMERGY GX2460 M1 GPU Server

GPU server optimized for AI, Data Science, VDI and HPC at the right price-performance ratio

Fujitsu offers a fantastic blend of systems, solutions and expertise to guarantee maximum productivity, efficiency and flexibility, delivering confidence and reliability. Fujitsu Server PRIMERGY systems deliver workload-optimized x86 industry standard servers for any workload and business demand. Since there is no single server solution to meet all these needs, Fujitsu offers a broad server portfolio consisting of expandable tower servers for remote and branch offices, versatile rack-mount servers, density-optimized multi-node servers as well as GPU accelerated servers optimized for AI. Whatever the size of your business – large enterprise with multiple sites, or a small or medium-sized company with limited space and budget – with the right choice of server, your IT can become the business enabler you have always wanted it to be.

PRIMERGY GX2460 M1
The Fujitsu Server PRIMERGY GX2460 M1 is a sophisticated dual-socket rack server enhanced with the latest GPU accelerated technology to deliver the highest levels of workload versatile performance, expandability and energy efficiency at the right price points. This powerful system comes with the latest 2nd/3rd Gen AMD EPYC™ series processors with up to 32 cores, along with up to 1TB of memory across 16x DIMM slots and up to 4x NVIDIA® PCIe GPU accelerator card options plus NVIDIA's "NGC-Ready" certification making this powerful system ideal for accelerating demanding data-center workloads such as Artificial Intelligence with a focus on Deep Learning, Data Science, apart from other HPC, VDI and graphics use cases. Up to 8x NVMe/SATA drives and 6x PCIe Gen4 expansion slots (available slots depend on number of and type of GPUs installed) deliver workload versatility and future growth. The server is designed for reliability, and lowered cost of ownership with energy-efficient 2200W Platinum class dual power supplies.

Furthermore, the server supports the FUJITSU ISM, to enhance admin productivity and ease server usage across the entire lifecycle.
Features & Benefits

<table>
<thead>
<tr>
<th>Main Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPU accelerated peak performance at the right price point</td>
<td>Ideal for heavy workloads- Deep Learning, Data Science, HPC, VDI, Graphics. NGC-Ready system tests single/multi-GPU Deep Learning training and inference, Data Science, Application Development. NVQual certifies reliable operation at max. throughput.</td>
</tr>
<tr>
<td>Expansion, future-ready design</td>
<td>Storage capacity, networking capabilities can be tailored and expanded to specific business needs and budgets, whereas onboard I/O ports enhance connectivity.</td>
</tr>
<tr>
<td>Support for up to 8x SATA/NVMe drives plus 6x PCIe Gen4 ports (availability depends on installed GPU numbers and type), standard onboard LAN (2x10 Gb/s), Also supports additional onboard I/O ports such as 4x USB-3.0, 1x VGA. Optimized for total cost of ownership</td>
<td>Redundant power supplies enhance reliability, and mitigate against expensive power supply failures, while high-efficiency further reduces overall energy envelope.</td>
</tr>
<tr>
<td>Compact 2U design with dual redundant, high-efficiency Platinum class power supplies.</td>
<td>Fujitsu ISM software offers Server status, event monitoring, update, inventory/archive management, logging and auditing, floor layout and rack view via an easy to use UI. Pre-tested, validated software configurations also ease administrator burden.</td>
</tr>
</tbody>
</table>

Designed for ease-of-use across the entire lifecycle
Fujitsu ISM Support plus range of OS/software support and validation.
# Technical details

## PRIMERGY GX2460 M1

<table>
<thead>
<tr>
<th>Base unit</th>
<th>PRIMERGY GX2460 M1</th>
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<tr>
<td>Housing types</td>
<td>Rack</td>
</tr>
<tr>
<td>Storage drive architecture</td>
<td>8x 2.5-inch SAS/SATA/PCIe</td>
</tr>
<tr>
<td>Power supply</td>
<td>Hot-plug</td>
</tr>
<tr>
<td>Product Type</td>
<td>Dual Socket Rack Server</td>
</tr>
</tbody>
</table>

## Mainboard

### Processor quantity and type
2 x AMD EPYC™ 7002 series processor / AMD EPYC™ 7003 series processor

### Processor

- AMD EPYC 7513 (32C, 2.60 GHz, TLC: 128 MB, Turbo: 3.65 GHz)
- AMD EPYC 7502 (32C, 2.50 GHz, TLC: 128 MB, Turbo: 3.30 GHz)
- AMD EPYC 7452 (32C, 2.35 GHz, TLC: 128 MB, Turbo: 3.15 GHz)
- AMD EPYC 7443 (24C, 2.85 GHz, TLC: 128 MB, Turbo: 4.0 GHz)
- AMD EPYC 7402 (24C, 2.80 GHz, TLC: 128 MB, Turbo: 3.30 GHz)
- AMD EPYC 7352 (32C, 2.30 GHz, TLC: 128 MB, Turbo: 3.00 GHz)
- AMD EPYC 7343 (8C, 3.20 GHz, TLC: 128 MB, Turbo: 3.90 GHz)
- AMD EPYC 7313 (16C, 3.0 GHz, TLC: 128 MB, Turbo: 3.70 GHz)
- AMD EPYC 7302 (16C, 3.00 GHz, TLC: 128 MB, Turbo: 3.25 GHz)
- AMD EPYC 7263 (8C, 3.10 GHz, TLC: 256 MB, Turbo: 4.10 GHz)
- AMD EPYC 7282 (16C, 2.80 GHz, TLC: 64 MB, Turbo: 3.20 GHz)
- AMD EPYC 7252 (8C, 3.10 GHz, TLC: 64 MB, Turbo: 3.20 GHz)

### Memory slots
16 (8 DIMMs per CPU)

### Memory slot type
DIMM (DDR4) ECC

### Memory capacity (min. - max.)
128 GB - 1 TB

### Memory protection
ECC

### Standard memory modules
- 16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 1Rx4
- 16 GB (1 module(s) 16 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx8
- 32 GB (1 module(s) 32 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4
- 64 GB (1 module(s) 64 GB) DDR4, registered, ECC, 3,200 MT/s, PC4-3200, DIMM, 2Rx4

## Interfaces

### USB 3.x ports
4 x USB 3.0 (2x front, 2x rear)

### Graphics (15-pin)
1 x VGA (1 x rear)

## Onboard or integrated Controller

### SATA Controller
AMD CPU includes SATA controller

### LAN Controller
2 x 10 Gbit/s Ethernet
For details, please refer to the relevant system configuration guide.

### Remote management controller
IPMI 2.0 compatible

## Slots

### PCI-Express 4.0 x16
6 x

## Drive bays

### Storage drive bays
2.5-inch hot-plug SATA/PCIe

### Notes accessible drives
All possible options described in relevant system configurator.

### Optional accessible drives
1 x 5.25/9.5 mm for DVD-RW/Blu-Ray

### Storage drive bays
8 x 2.5-inch hot-plug

## General system information
Operating panel

<table>
<thead>
<tr>
<th>Operating buttons</th>
<th>On/off switch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reset button</td>
</tr>
<tr>
<td></td>
<td>ID button</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Status LEDs</th>
<th>Hard disk error</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LAN connection</td>
</tr>
<tr>
<td></td>
<td>ID</td>
</tr>
<tr>
<td></td>
<td>System status and warning (Memory/PSU/Fan)</td>
</tr>
</tbody>
</table>

BIOS

<table>
<thead>
<tr>
<th>BIOS features</th>
<th>IPv4/IPv6 remote PXE support</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Legacy BIOS compatibility customer configuration option</td>
</tr>
<tr>
<td></td>
<td>Remote PXE boot support</td>
</tr>
<tr>
<td></td>
<td>Secure boot support</td>
</tr>
<tr>
<td></td>
<td>IPMI support</td>
</tr>
<tr>
<td></td>
<td>Local BIOS update from USB device</td>
</tr>
<tr>
<td></td>
<td>UEFI compliant</td>
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</tbody>
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Operating Systems and Virtualization Software

<table>
<thead>
<tr>
<th>Certified or supported operating systems and virtualization software</th>
<th>Windows Server 2019 Datacenter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Windows Server 2019 Standard</td>
</tr>
<tr>
<td></td>
<td>VMware vSphere™ 7.0</td>
</tr>
<tr>
<td></td>
<td>VMware vSphere™ 6.7</td>
</tr>
<tr>
<td></td>
<td>Red Hat® Enterprise Linux 8</td>
</tr>
</tbody>
</table>

| Operating system release link | http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfb3230473 |
| Operating system notes       | Support of other Linux derivatives on demand |
|                            | Use of certified or supported operating systems and virtualization software is subject to proactive acceptance of the respective License Agreements/EULAs/Subscription and support terms of the Software manufacturer as applicable for the relevant Software whether preinstalled or optional. The software may only be available bundled with a software support subscription which – depending on the Software - may be subject to separate remuneration. |

Infrastructure and Server Management

<table>
<thead>
<tr>
<th>DC Infrastructure Management</th>
<th>Infrastructure Manager (ISM)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Essential Edition</td>
</tr>
<tr>
<td></td>
<td>Advanced Edition</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Server Management</th>
<th>Infrastructure Manager (ISM)</th>
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<tbody>
<tr>
<td></td>
<td>Essential Edition</td>
</tr>
<tr>
<td></td>
<td>Advanced Edition</td>
</tr>
</tbody>
</table>

| Management notes | For further information regarding ISM see dedicated data sheets. |
| Manageability link | http://docs.ts.fujitsu.com/dl.aspx?id=9e92297a-16fb-4c69-8559-e38e7b42fee6 |

Dimensions / Weight

| Rack (W x D x H) | 438 x 831 x 87 mm |
| Height Unit Rack | 2 U |
| Weight           | max. 38 kg |
| Weight notes     | Actual weight may vary depending on configuration |
| Rack integration kit | Rack integration kit as option |

| Floor-stand (W x D x H) | 20.3 |

Environment

<table>
<thead>
<tr>
<th>Operating relative humidity</th>
<th>10 - 85 % (non condensing)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating environment</td>
<td>FTS 04230 – Guideline for Data Center (installation specification)</td>
</tr>
<tr>
<td>Noise emission</td>
<td>Measured according to ISO 7779</td>
</tr>
<tr>
<td>Sound pressure (LpAm)</td>
<td>54 dB(A)~76 dB(A)</td>
</tr>
<tr>
<td>Noise notes</td>
<td>Noise emissions depends on operation modes, system configuration and ambient temperature. Operating mode measured based on OLTIS with 50% load. *OLTIS = FUJITSU Load Profile which stresses all components of a server with a given load level.</td>
</tr>
</tbody>
</table>
### Electrical values

- **Power supply configuration**: 2 hot-plug power supplies (standard)
- **Hot-plug power supply redundancy**: Yes
- **Active power note**: To estimate the power consumption of different configurations use the Fujitsu Product Configurator: [www.fujitsu.com/configurator/public](http://www.fujitsu.com/configurator/public)
- **Power supply**: 2200W hot-plug, 94% (Platinum efficiency), 200-240V, 47-63 Hz

### Compliance

- **Product**: PRIMERGY GX2460 M1
- **Global**
  - CB
  - RoHS (Substance limitations in accordance with global RoHS regulations)
  - WEEE (Waste electrical and electronical equipment)
- **Europe**
  - CE
- **USA/Canada**
  - CSAc/us
  - ICES-003 / NMB-003 Class A
  - FCC Class A
- **Japan**
  - VCCI Class A + JIS 61000-3-2
- **South Korea**
  - KN35
- **Australia/New Zealand**
  - AS/NZS CISPR32 Class A
- **Taiwan**
  - CNS 13438 class A

### Compliance link

[https://sp.ts.fujitsu.com/sites/certificates](https://sp.ts.fujitsu.com/sites/certificates)

### Compliance notes

There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.

*Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.*

### Components

#### Hard disk drives

- HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
- HDD SATA, 6 Gb/s, 2 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical
- HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512n, hot-plug, 2.5-inch, business critical
- HDD SATA, 6 Gb/s, 1 TB, 7,200 rpm, 512e, hot-plug, 2.5-inch, business critical

#### Solid-State-Drive

- SSD SATA, 6 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)
- SSD SATA, 6 Gb/s, 960 GB, Mixed-use, 2.5-inch, enterprise, 5.0 DWPD (Drive Writes Per Day for 5 years)
- SSD SATA, 6 Gb/s, 480 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)
- SSD SATA, 6 Gb/s, 480 GB, Mixed-use, 2.5-inch, enterprise, 5.0 DWPD (Drive Writes Per Day for 5 years)
- SSD SATA, 6 Gb/s, 240 GB, Read-Intensive, 2.5-inch, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)
- SSD SATA, 6 Gb/s, 240 GB, Mixed-use, 2.5-inch, enterprise, 5.0 DWPD (Drive Writes Per Day for 5 years)
- SSD SATA, 6 Gb/s, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 0.6 DWPD (Drive Writes Per Day for 5 years)
- SSD SATA, 6 Gb/s, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1.2 DWPD (Drive Writes Per Day for 5 years)
- SSD SATA, 6 Gb/s, 3.84 TB, Mixed-use, 2.5-inch, enterprise, 3.5 DWPD (Drive Writes Per Day for 5 years)
- SSD SATA, 6 Gb/s, 240 GB, Hot-Plug, 2.5-inch, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)
- SSD SATA, 6 Gb/s, 1.92 TB, Hot-Plug, 2.5-inch, enterprise, 1.5 DWPD (Drive Writes Per Day for 5 years)
- SSD SATA, 6 Gb/s, 1.92 TB, Mixed-use, 2.5-inch, enterprise, 5.0 DWPD (Drive Writes Per Day for 5 years)

### Solid-State-Drive

- SSD SAS, 12 Gb/s, 960 GB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
- SSD SAS, 12 Gb/s, 800 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)
- SSD SAS, 12 Gb/s, 800 GB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)
- SSD SAS, 12 Gb/s, 400 GB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)
- SSD SAS, 12 Gb/s, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)
- SSD SAS, 12 Gb/s, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, enterprise, 1 DWPD (Drive Writes Per Day for 5 years)
- SSD SAS, 12 Gb/s, 1.6 TB, Write-Intensive, hot-plug, 2.5-inch, enterprise, 10 DWPD (Drive Writes Per Day for 5 years)
- SSD SAS, 12 Gb/s, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, enterprise, 3 DWPD (Drive Writes Per Day for 5 years)
PCIe SSD & SATA DOM SSD

- PCIe-SSD SFF, 960 GB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)
- PCIe-SSD SFF, 15.36 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 0.8 DWPD (Drive Writes Per Day for 5 years)
- PCIe-SSD SFF, 12.8 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.1 DWPD (Drive Writes Per Day for 5 years)
- PCIe-SSD SFF, 7.68 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)
- PCIe-SSD SFF, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
- PCIe-SSD SFF, 6.4 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
- PCIe-SSD SFF, 4 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 0.8 DWPD (Drive Writes Per Day for 5 years)
- PCIe-SSD SFF, 3.84 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)
- PCIe-SSD SFF, 3.2 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
- PCIe-SSD SFF, 2 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 0.7 DWPD (Drive Writes Per Day for 5 years)
- PCIe-SSD SFF, 1.92 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)
- PCIe-SSD SFF, 1.6 TB, Mixed-use, hot-plug, 2.5-inch, Flash drive, 3.0 DWPD (Drive Writes Per Day for 5 years)
- PCIe-SSD SFF, 1 TB, Read-Intensive, hot-plug, 2.5-inch, Flash drive, 1.0 DWPD (Drive Writes Per Day for 5 years)

RAID Controller

- Fujitsu PRAID EP580i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 8 GB, Optional FBU based on LSI SAS3516
- Fujitsu PRAID EP540i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, NVMe-PCIe 8 Gbit/s, 8 Gbit/s 16 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 4 GB, Optional FBU based on LSI SAS3516
- Fujitsu PRAID EP520i LP, RAID 5/6 Ctrl., SAS/SATA 12 Gbit/s, 8 ports int. RAID level: 0, 1, 10, 5, 50, 6, 60, 2 GB, Optional FBU based on LSI SAS3516

Communication, Network

- Ethernet Ctrl. 2 x 10 Gbit/s ; 1 Gbit/s PCIe 3.0 x8 RI45 ( Intel® )
- Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 ( Intel® )
- Ethernet Ctrl. 2 x 10 Gbit/s / 25 Gbit/s PCIe 3.0 x8 SFP28 ( Mellanox )
- Ethernet Ctrl. 4 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( Intel® )
- Ethernet Ctrl. 4 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( Intel® )
- Ethernet Ctrl. 4 x 10 Gbit/s PCIe 3.0 x8 SFP+ ( Intel® )
- Ethernet Ctrl. 4 x 1 Gbit/s PCIe 2.1 x4 RI45 ( Intel® )
- InfiniBand HCA 1 x 100 Gbit/s PCIe 3.0 x16 QSFP for the US market max. one IB HCA 100Gb controller can be installed ( Mellanox )
- InfiniBand HCA 2 x 100 Gbit/s PCIe 3.0 x16 QSFP for the US market max. one IB HCA 100Gb controller can be installed ( Mellanox )

GPU computing card

- NVIDIA A30, 24 GB, 933GB/s, 24GB HBM2, N/A, PCIe 4.0 x16
- NVIDIA A16, 64 GB, 800GB/s (4x200GB/s), 64GB GDDR6 (4x16GB), N/A, PCIe 4.0 x16
- NVIDIA A100 80GB, 6912 cores, 1935GB/s, 80GB HBM2e, N/A, PCIe 4.0 x16
- NVIDIA A40, 48 GB, 696 GB/s, 48GB GDDR6, N/A, PCIe 4.0 x16
- NVIDIA RTX™ A6000, 48 GB, 786 GB/s, 48 GB GDDR6, N/A, PCIe 4.0 x16, 4 x DisplayPort

Warranty

- Warranty period: 3 years
- Warranty type: Onsite warranty
- Product Support - the perfect extension

Support Pack Options

- Globally available in major metropolitan areas:
  - 9x5, Next Business Day Onsite Response Time
  - 9x5, 4h Onsite Response Time (depending on country)
  - 24x7, 4h Onsite Response Time (depending on country)
- Recommended Service: 24x7, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.
- Service Lifecycle: at least 5 years after shipment, for details see https://support.ts.fujitsu.com/
More information

In addition to Fujitsu Server PRIMERGY GX2460 M1, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio
Built on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offerings. This allows customers to select from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products
www.fujitsu.com/global/products/computing/

Software
www.fujitsu.com/software/

Fujitsu green policy innovation
Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT.
Please find further information at http://www.fujitsu.com/global/about/environment

Contact
Fujitsu LIMITED
Website: www.fujitsu.com
2022-10-19 WW-EN

Disclaimer
Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.
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