IBM

Technical Documentation for EU Regulation 2019/424 laying down ecodesign requirements for servers and data storage product pursuant to Directive 2009/125/EC

The following information is based on IBM's knowledge as of the date of this document, which may be based on its records and information from third parties. This documentation applies to finished products that IBM newly puts into service in the European Union and other jurisdictions which require this Technical Documentation as of the above date.

Product Information		
Machine Type(s)	**Part Number**	**Product Type**
Rack Mount Server	6029U-E1CR4T	Enterprise Class Server

Entity putting product into service (Manufacturer for purposes of regulation) registered trade name and trade address:

IBM
Marca Registrada
® Registered Trademark of
International Business Machines Corporation
New Orchard Road Armonk, New York 10504

Year of Deployment
2020

Power Supply Unit (PSU) efficiency, power factor and rated power output:

Rated Output Power -1000W	PSU Efficiency				Power Factor
% of Rated Load	**10%**	**20%**	**50%**	**100%**	**50%**
Single Output	91.6%	94.7%	96.0%	94.0%	0.99

Idle State Power at high-end configuration (Watts rounded to the first decimal place)
227.6W

Idle State Power at low-end configuration (Watts rounded to the first decimal place)
143.1W

List of components for additional idle power allowances for high-end configuration
- **118.1 additional watts for Xeon Cascade Lake 8280 performance**
- **10 additional watts for an additional PWS-1K02A-1R PSU**
- **10 additional watts for two Micron 5200 MAX TCG-E SSDs**
- **275.8 additional watts for 1536 GB of memory**
- **30 additional watts for ports 3 and 4 of SMC AOC-UR-i4XT Quad 10Gb NIC**

Total allowed idle power for high-end configuration
481.9W

List of components for additional idle power allowances for low-end configuration
- **41.1 additional watts for Xeon Cascade Lake 4210 performance**
- **10 additional watts for an additional PWS-1K02A-1R PSU**
- **10 additional watts for two Seagate ST1000NM0033 HDDs**
- **33.8 additional watts for 192 GB of memory**
- **30 additional watts for ports 3 and 4 of SMC AOC-UR-i4XT Quad 10Gb NIC**

Total allowed idle power for low-end configuration (Watts rounded to the first decimal place)
162.9W

Maximum power at high-end configuration (Watts rounded to the first decimal place)
_794.2W_

Maximum power at low-end configuration (Watts rounded to the first decimal place)
_316.3W_

Declared operating condition class (same for high and low-end configurations for any socket population configuration)
_A2 (10-35°C)_

Idle state power at the higher boundary temperature of the declared operating condition class at high-end configuration
_230W_

Idle state power at the higher boundary temperature of the declared operating condition class at low-end configuration
_146.4_

Active state efficiency and performance in active state at high-end configuration
_28.5_

Active state efficiency and performance in active state at low-end configuration
_21.0_

Product configurations
The possible configurations for this product family will be the combination of these components that are selected by the individual client when they purchase the server.

Secure data functionality URL:
https://www.supermicro.com/en/about/policies/

IBM Cloud will securely sanitize physical media intended for reuse prior to such reuse, and will destroy physical media not intended for reuse, consistent with National Institute of Standards and Technology, United States Department of Commerce (NIST), guidelines for media sanitization.

Data deletion of storage devices installed in IBM Cloud servers is performed via our automation platform. Upon cancellation, the server is moved to a reclaim network for a set hold time. Once the reclaim process begins the server will be loaded into a provisioning OS where data on all installed storage devices is wiped using Department of Defense (DOD) 5220.22-M algorithms. Progress is tracked throughout the process by means of the serial number associated with the storage devices.

Data deletion on active systems will be performed by IBM Cloud only at the customer's request. This typically involves scheduling a maintenance window at which time an IBM Cloud data center technician will power down the system, remove the requested drives and replace them with empty, unformatted drives of the same make/model. The original drives containing the data to be deleted will be installed into an internal utility server where the same data sanitization process described above will be performed.

The 'end of life' process is initiated when a storage device malfunctions, once the total power-on-hours exceeds the expected life of the device, or when support for a specific model ends. When any of these conditions occur, an offending storage device will be flagged and set to end-of-life. The storage device is wiped using the same data sanitization process described above, after which the device is physically destroyed onsite by breaking, crushing, or shredding the device. The physical destruction process is tracked by the serial number of the storage device.

Limitations for customers: The product information provided in this Technical Documentation is provided "AS IS", without any express or implied warranty of any kind. This information is subject to change without notice; provided, however, that IBM reserves the right, in its discretion, to issue an update or modification to this Documentation if it believes it is appropriate to do so. The contents of this Documentation do not constitute either: (1) legal advice; (2) a legal opinion; or (3) any representation, warranty, or guarantee regarding a person's ability to comply with applicable legal requirements. This Documentation in no way modifies any agreements entered into by IBM. The information here is based on IBM's knowledge as of the date of this document, which may be based on its records and information from third parties. This documentation applies to finished products that IBM newly puts into service in the European Union and other jurisdictions which require this Declaration of Conformity as of the date above. CE Mark applies only to those new products put on the market in the EU and the European Free Trade Association jurisdictions by IBM.

The following are trademarks of International Business Machines Corporation in the United States, or other countries, or both: IBM, IBM

Material efficiency Requirements:
Disassembly for repair or reuse purposes
Weight range of specified critical raw materials

Product information for return and recycling can be found at:
https://www.ibm.com/ibm/environment/products/recycling.shtml

Complete product information for repair or reuse of components can be found at:
https://www.supermicro.com/en/about/policies/

No Cobalt content is expected for all the individual battery types used in equipment and thus, the applicable indicative weight range as provided by the EU Regulation 2019/434 is "Less than 5 grams".

Limitations: International Business Machines Corporation (or its affiliate responsible for the transfer of the subject System) ("IBM") believes the information provided in this document is accurate but makes no commitment, affirmation, or certification with respect to any of the information, except to the extent required by law. Rather, IBM provides all such information "AS IS", without any express or implied warranty of any kind. This information is subject to change without notice; provided, however, that IBM reserves the right, in its discretion, to issue an update or modification to this document if it believes it is appropriate to do so. The contents of this document do not constitute either: (1) legal advice; (2) a legal opinion; or (3) any representation, warranty, or guarantee regarding a person's ability to comply with applicable legal requirements. This document in no way modifies any agreements entered into by IBM.