

QuantaMesh BMS T7032-IX7D



The Next Wave Enterprise Data Center 100G Switch

- ONIE Pre-loaded
- x86 CPU Board
- BMC Built-in
- QNOS Ready

Data center networks face changes with hardware and meeting the requirements of the software it hosts. Quanta Cloud Technology provides a series of Bare Metal Switches, the QCT BMS product line, that addresses these changes in the data center market. The QCT BMS product lines support speeds up to 100G speeds on its Ethernet Switches. To meet the requirements of high performance, high availability, fast scale out, low latency performance, and continuous serviceability in data center applications, the QCT BMS product line is the best choice.

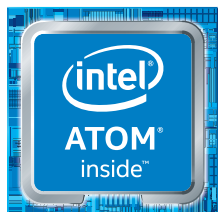
BMC (Baseboard Management Controller) embedded on the server as the core of the Intelligent Platform Management Interface (IPMI) architecture can now be implemented in the Ethernet switch. In addition to providing health monitoring of the temperature, power status, and cooling fans; BMC also aids in the deployment and management of software and hardware peripherals.

QCT BMS T7032-IX7D supports 32 QSFP28 (10/25/40/50/100GbE speed) in a compact rack unit size. By leveraging merchant silicon chip, T7032-IX7D is a high performance high density Ethernet switch with advanced features such as smart table, dynamic load balancing, and VxLAN/RIOT support. T7032-IX7D provides programmable capability which allows for future changes such as telemetry & analysis or network overlays & associated metadata. With ONIE (Open Network Installation Environment) pre-loaded it could be used for multiple network operating system which supports ONIE installer to achieve agile installation and fast response for the changing demand.

About QCT

Quanta Cloud Technology (QCT) is a global data center solution provider. We combine the efficiency of hyperscale hardware with infrastructure software from a diversity of industry leaders to solve next-generation data center design and operation challenges. QCT serves cloud service providers, telecoms and enterprises running public, hybrid and private clouds.

Product lines include hyper-converged and software-defined data center solutions as well as servers, storage, switches, integrated racks with a diverse ecosystem of hardware component and software partners. QCT designs, manufactures, integrates and services cutting edge offerings via its own global network. The parent of QCT is Quanta Computer, Inc., a Fortune Global 500 corporation.





Found at: www.QCT.io/wheretobuy

United States

QCT LLC., Silicon Valley office
1010 Rincon Circle, San Jose, CA 95131
TOLL-FREE: 1-855-QCT-MUST
TEL: +1-510-270-6111
FAX: +1-510-270-6161
Support: +1-510-270-6216

China

云达科技, 北京办公室
(Quanta Cloud Technology)
北京市朝阳区东大桥路12号润诚中心2号楼
TEL: +86-10-5920-7600
FAX: +86-10-5981-7958

云达科技, 杭州办公室

(Quanta Cloud Technology)
浙江省杭州市西湖区古墩路浙商财富中心4号楼
303室
TEL: +86-571-2819-8650

Japan

Quanta Cloud Technology Japan 株式会社
日本国東京都港区芝大門二丁目五番八号
牧田ビル3階
TEL: +81-3-5777-0818
FAX: +81-3-5777-0819

Taiwan

雲達科技 (Quanta Cloud Technology)
桃園市龜山區文化二路211號1樓
TEL: +886-3-286-0707
FAX: +886-3-327-0001

Germany

Quanta Cloud Technology Germany GmbH
Hamborner Str. 55, 40472 Düsseldorf
TEL: +49-2405-4083-1300

Other regions

Quanta Cloud Technology
No. 211 Wenhua 2nd Rd., Guishan Dist.,
Taoyuan City 33377, Taiwan
TEL: +886-3-327-2345
FAX: +886-3-397-4770

QCT authorized partner

All specifications and figures are subject to change without prior notice. Actual products may look different from the photos.

QCT, the QCT logo, Rackgo, Quanta, and the Quanta logo are trademarks or registered trademarks of Quanta Computer Inc.

All trademarks and logos are the properties of their respective holders.
Copyright © 2018 Quanta Computer Inc. All rights reserved.

Physical Ports

- **Port configuration:** 32 QSFP28 ports support for 10/25/40/50/100GbE
- **Management Port:** Out-of-band management port (RJ-45, 10/100/1000Base-T)
- **Console Port:** 1 RJ-45 console port
- **USB:** 1 USB 2.0 port

Performance

- **Switching capacity:** 6.4Tbps
- **Maximum forwarding rate:** 2Bpps
- **Latency:** Ultra-low latency
- **MAC:** Unified Forwarding Table to dynamically allocate the L2/L3 tables

Major Components

- **ASIC:** Broadcom StrataXGS Trident3 BCM56870

x86 CPU Module

- **CPU:** Intel Atom® Processors C3558
- **Memory:** 8GB DDR3/ECC
- **Storage:** SSD: 128GB

BMC

- **IPMI:** v1.5/v2.0 compliance
- **Serial over LAN**
- **SNMP:** v1/v2/v3
- **SMASH**
- **HTTPS**
- **Health status and hardware monitoring**
- **Event log**
- **PEF and PET**
- **Chassis management**
- **Watchdog and system re-start**

High Availability

- **Redundant power supply:** 1+1
- **Hot-swappable fan tray:** N+2

Mechanical

- **Dimension (HxWxD):** 43.2x440x508mm
- **Weight:** 9.78kg/21.54lbs(NET)

Environmental Specifications

- **Operating temperature:** 0~45°C
- **Operating humidity:** 90% maximum relative humidity
- **Operating Altitude:** 0 to 2952 ft, (0-900m)

Electrical

- **Power requirement:** 100~240VAC, 50/60Hz
- **Power consumption:** 426W (100% fan duty)

Safety

- **UL, cUL, CB**

EMC

- **CE, FCC**

RoHS

- **Reduction of Hazardous Substances (RoHS) 6**

Supported Optics and Cables

- **DAC cable (QSFP+):** 1m, 3m, and 5m
- **DAC cable (QSFP+, fan-out):** 1m, 3m, and 5m
- **DAC cable (QSFP28):** 1m, 3m, and 5m
- **DAC cable (QSFP28, fan-out):** 3m
- **AOC cable (QSFP+, 850nm, MMF):** 7m and 10m
- **AOC cable (QSFP28, 850m, MMF):** 1m, 3m, 5m, and 10m
- **40G optic (QSFP+, MPO, 850nm, MMF):** 40GBASE-SR4
- **40G optic (QSFP+, LC, 1310nm, SMF):** 40GBASE-LR4
- **100G optic (QSFP28, MPO, 850nm, MMF):** 100GBASE-SR4
- **100G optic (QSFP28, MPO, 1310nm, SMF):** 100GBASE-PSM4
- **100G optic (QSFP28, LC, 1310nm, SMF):** 100GBASE-LR4

Order Information

- **T7032-IX7D (1IX7U7Z0ST4) Front to Back, with Rail Kit**
- **T7032-IX7D (1IX7U7Z0ST5) Back to Front, with Rail Kit**
- **PSU - Red (1HY9ZZZ071Y) (F-2-B, AC, 750W)**
- **PSU - Blue (1HY9ZZZ0720) (B-2-F, AC, 750W)**
- **FAN Module (1HY9ZZZ0165) (F-2-B)**
- **FAN Module (1HY9ZZZ0166) (B-2-F)**



Intel Inside®. New Possibilities Outside.

Intel, the Intel logo, Intel Inside, Intel Inside logo, Intel Atom and Intel Atom Inside are trademarks of Intel Corporation in the U.S. and/or other countries.