Huawei CloudEngine Series Data Center Switch Portfolio

CloudEngine 16800: Core data center switch build for the AI era

- Embedded with AI chip, 400GE smooth evolution
- Innovative iLossless algorithm, providing real-time learning and training of network-wide traffic and implementing auto-sensing and auto-optimization of the traffic model
- Zero packet loss, low latency, and 100% throughput, improving the AI computing power from 50% to 100%

NEW

CloudEngine 16816
- 16 service slots
- Switching capacity: 173 Tbit/s (scalable to 1,548 Tbit/s)
- Throughput: 45,120 Mpps

NEW

CloudEngine 16808
- 8 service slots
- Switching capacity: 86 Tbit/s (scalable to 774 Tbit/s)
- Throughput: 22,560 Mpps

NEW

CloudEngine 16804
- 4 service slots
- Switching capacity: 43 Tbit/s (scalable to 387 Tbit/s)
- Throughput: 11,280 Mpps

CloudEngine 12800: Industry-leading data center core switch

- Various SDN capabilities; MACSEC
- Comprehensive virtualization: 1:16 device virtualization, M-LAG, and CSS
- Intelligent O&M: Proactive path detection on the entire network and real-time monitoring of network health status

CloudEngine 12816
- 16 service slots
- Switching capacity: 178 Tbit/s (scalable to 1032 Tbit/s)
- Throughput: 69,120 Mpps

CloudEngine 12812
- 12 service slots
- Switching capacity: 134 Tbit/s (scalable to 774 Tbit/s)
- Throughput: 51,840 Mpps

CloudEngine 12808
- 8 service slots
- Switching capacity: 89 Tbit/s (scalable to 516 Tbit/s)
- Throughput: 34,560 Mpps

CloudEngine 12804
- 4 service slots
- Switching capacity: 45 Tbit/s (scalable to 258 Tbit/s)
- Throughput: 17,280 Mpps

CloudEngine 12808S
- 8 service slots
- Switching capacity: 59 Tbit/s (scalable to 516 Tbit/s)
- Throughput: 34,560 Mpps

CloudEngine 12804S
- 4 service slots
- Switching capacity: 30 Tbit/s (scalable to 258 Tbit/s)
- Throughput: 17,280 Mpps

CloudEngine 8860: Switch with flexible service cards

CloudEngine 8860-4C-EI
- Flexible use of 100GE, 40GE, 25GE, and 10GE cards
- Switching capacity: 6.4 Tbit/s
- Throughput: 3200 Mpps

CloudEngine 8861-4C-EI
- Flexible use of 100GE, 40GE, 25GE, and 10GE cards
- Switching capacity: 6.4 Tbit/s
- Throughput: 2030 Mpps

- Various SDN capabilities, VXLAN, BGP-EVPN
- iStack, M-LAG
- Intelligent O&M: Proactive path detection on the entire network and real-time monitoring of network health status

CloudEngine 8850: 100GE aggregation switch

CloudEngine 8850-32CQ-EI
- 32x100GE QSFP28, 2x10GE SFP+
- Switching capacity: 6.44 Tbit/s
- Throughput: 3200 Mpps

CloudEngine 8850-64CQ-EI
- 64x100GE QSFP28
- Switching capacity: 12.8 Tbit/s
- Throughput: 4482 Mpps

- Various SDN capabilities, VXLAN, BGP-EVPN
- iStack, M-LAG
- Intelligent O&M: Proactive path detection on the entire network and real-time monitoring of network health status

CloudEngine 7800: 40GE aggregation switch

CloudEngine 7855-32Q-EI
- 32x40GE QSFP+
- Switching capacity: 2.56 Tbit/s
- Throughput: 1440 Mpps

- Various SDN capabilities, VXLAN, BGP-EVPN
- iStack, M-LAG
- Intelligent O&M: Proactive path detection on the entire network and real-time monitoring of network health status

CloudEngine 6880: Microsegmentation-capable 10GE TOR switch

CloudEngine 6880-24S4Q2CQ-EI
- 24x10GE SFP+
- 4x40GE QSFP+ + 2x100GE QSFP28
- Switching capacity: 1.2 Tbit/s
- Throughput: 406 Mpps

NEW

CloudEngine 6881-48S6CQ
- 48x10GE SFP+
- 6x100GE QSFP28
- Switching capacity: 2.16 Tbit/s
- Throughput: 940 Mpps

- Various SDN capabilities: VXLAN and BGP-EVPN
- Fine-grained microsegmentation isolation

CloudEngine 6870: 10GE deep-buffer TOR switch

CloudEngine 6870-48S6CQ-EI
- 48x10GE SFP+
- 6x100GE QSFP28
- Buffer: 4GB
- Switching capacity: 2.16 Tbit/s
- Throughput: 720 Mpps

CloudEngine 6870-48T6CQ-EI
- 48x10GE BASE-T
- 6x100GE QSFP28
- Buffer: 4GB
- Switching capacity: 2.16 Tbit/s
- Throughput: 720 Mpps

CloudEngine 6875-48S4CQ-EI
- 48x10GE SFP+
- 4x100GE QSFP28
- Buffer: 4GB
- Switching capacity: 1.76 Tbit/s
- Throughput: 835 Mpps
- Support MACSEC

## CloudEngine 6860: 25GE TOR switch

CloudEngine 6860-48S8CQ-EI
- 48x25GE SFP28
- 8x100GE QSFP28
- Switching capacity: 4 Tbit/s
- Throughput: 3200 Mpps

NEW

CloudEngine 6863-48S6CQ
- 48x25GE SFP28
- 6x100GE QSFP28
- Switching capacity: 4.8 Tbit/s
- Throughput: 1600 Mpps
- Support microsegmentation

CloudEngine 6865-48S8CQ-EI
- 48x25GE SFP28
- 8x100GE QSFP28
- Switching capacity: 4 Tbit/s
- Throughput: 2000 Mpps

- Various SDN capabilities: VXLAN and BGP-EVPN
- iStack and M-LAG
- Intelligent O&M: Proactive path detection on the entire network and real-time monitoring of network health status

CloudEngine 6850: 10GE TOR switch
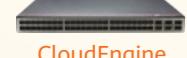
CloudEngine 6857-48S6CQ-EI
- 48x10GE SFP+
- 6x40GE or 6x100GE QSFP28
- Switching capacity: 4 Tbit/s
- Throughput: 2000 Mpps
- Support microsegmentation

CloudEngine 6855/6856-48S6Q-HI
- 48x10GE SFP+
- 6x40GE QSFP+
- Switching capacity: 2.56 Tbit/s
- Throughput: 1080 Mpps

CloudEngine 6855/6856-48T6Q-HI
- 48x10GE BASE-T
- 6x40GE QSFP+
- Switching capacity: 2.56 Tbit/s
- Throughput: 1080 Mpps
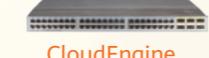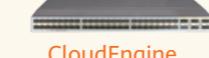
CloudEngine 6851-48S6Q-HI
- 48x10GE SFP+
- 6x40GE QSFP+
- Switching capacity: 2.56 Tbit/s
- Throughput: 1080 Mpps

- Various SDN capabilities, VXLAN, BGP-EVPN
- iStack, M-LAG
- Intelligent O&M: Proactive path detection on the entire network and real-time monitoring of network health status

CloudEngine 6820: 10GE TOR switch
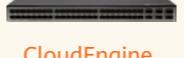
CloudEngine 6820-48S6CQ
- 48x10GE SFP+
- 6x100GE QSFP28
- Switching capacity: 2.16 Tbit/s
- Throughput: 470 Mpps

CloudEngine 6810: L2 10GE TOR switch

CloudEngine 6810-32T16S4Q-LI
- 32x10GE BASE-T, 16x10GE SFP+
- 4x40GE QSFP+
- Switching capacity: 1.28 Tbit/s
- Throughput: 960 Mpps
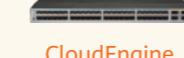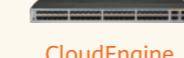
CloudEngine 6810-48S4Q-LI
- 48x10GE SFP+
- 4x40GE QSFP+
- Switching capacity: 1.28 Tbit/s
- Throughput: 960 Mpps

- iStack, M-LAG

CloudEngine 5800: GE TOR switch

CloudEngine 5880-48T6Q-EI
- 44 x GE BASE-T, 4x10GE BASE-T
- 6x40GE QSFP+
- Throughput: 406 Mpps

CloudEngine 5855-48T4S2Q-EI
- 48/24xGE BASE-T, 4x10 SFP+
- 2x40GE QSFP+
- Throughput: 252 Mpps/215 Mpps
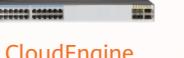
CloudEngine 5855-24T4S2Q-EI

- iStack, M-LAG