



# H3C CR19000 Cluster Routers

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#### **Product Overview**

The CR19000 cluster router series (hereinafter referred to as the CR19000) is a set of new-generation core routers developed for service provider-level applications. It can be deployed as service providers' backbone nodes and MAN core nodes, or data centers backbone interconnection nodes. The CLOS architecture, cutting-edge optical connection technology, and Comware V7 operating system enables the CR19000 to deliver extraordinary availability and compatibility, making it an ideal choice for service providers.

The CR19000 router series includes the following models: CR19000-8, CR19000-16, CR19000-20, and CR19000-MC. The CR19000-8, CR19000-16, and CR19000-20 provide 8, 16, and 20 service line-card slots, respectively. The CR19000-MC is a fabric card chassis (FCC) that provides interconnection and unified control of multiple CR19000-20 routers. The CR19000-8 can operate in single-chassis mode or the back-to-back cluster mode. The CR19000-16 can operate in single-chassis mode. The CR19000-20 can operate in single-chassis mode, back-to-back cluster mode, or multi-chassis cluster mode.





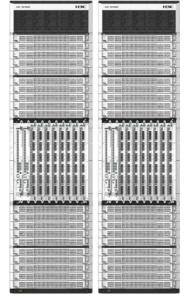
0-8 CR19000-8 back-to-back cluster



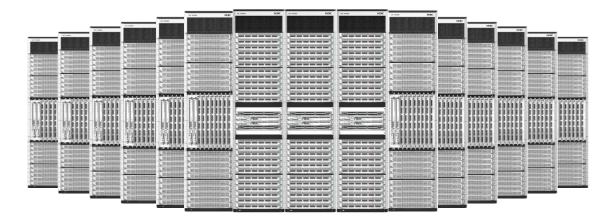


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CR19000-20 back-to-back cluster



CR19000-20 3+12 cluster

## Features and benefits

### Ultra-large capacity and unlimited expansion

- The CR19000 router adopts the most advanced fourth-generation non-blocking CLOS switching architecture, which enables data to be transmitted at a super high speed with low latency. Support for variable-length cell switching significantly improves operation efficiency of the overall cluster.
- On a single CR19000 with 1200G capacity on each slot, each port can provide a capacity as high as 100Gbps. The router supports a maximum of 240 100G ports and this number will be continuously increased.
- The CR19000 supports multiple cluster modes, such as back-to-back, 2+6, and 3+12, and supports
  cascade of up to 12 chassis. Smooth expansion from a single chassis to a cluster protects users'
  investment



#### Open architecture and SDN-oriented design

With full support for SDN, the CR19000 provides various protocol interfaces for collaboration with external systems and can communicate comprehensively with SDN controllers. This enables users to precisely control network resources on demand and greatly improves network operation efficiency.

#### High availability and enhanced security

The CR19000 provides comprehensive high availability performance by using the following methods:

- Advanced distributed architecture—With separated routing, service, and switching engines, the failure of
  a single hardware component does not affect the operation of the whole system. The separation of
  control plane and service plane prevents service processing and system control from affecting each
  other and ensures service continuity during active/standby switchover. Support for N+M redundancy of
  switching fabric modules guarantees line-speed traffic forwarding during switching fabric module
  replacement.
- Comware 7-based operating system—The control plane of the OS adopts multi cores and the Symmetrical Multi-Processing (SMP) technology to provide separate processing and running space for each software module, enabling dynamic loading and independent upgrade. Support for running specific processes on the dedicated CPU set, together with preemptive scheduling and priority settings, guarantees resources for critical services when the CPU usage is high. Distributed computing and refined management further improves system stability.
- Abundant availability features—The CR19000 supports abundant availability features, including hot
  patching, link detection protocols NSR, GR, BFD, and NQA, fast convergence protocols IP FRR and LDP
  FRR, and Embedded Automation Architecture (EAA). With all these features, the CR19000 is able to
  provide ultra-large service capacity and ultra-fast service convergence as required by service providers
  in large-scale deployment.

#### Green design

- The industry-leading environment-friendly and sustainable design greatly increases the energy efficiency and ensures smooth upgrade.
- The router uses cut-through ventilation aisles, which brings much higher cooling efficiency than the traditional U-shaped, Z-shaped, or C-shaped air isles. This design enables the air to flow through the router with almost no loss in air volume and speed and can fully satisfy the cooling requirements of core network devices with continuously increasing capacity.
- With the smart micro-module heat dissipation system, the router perfectly balances ventilation and power consumption. The cluster system can intelligently adjust the fan speed based on the hotspot information to meet the overall ventilation requirements.



# **Technical specifications**

Item	CR19000-8	CR19000-8 back-to-back cluster	CR19000-16	CR19000-20	CR19000-20 3+12 cluster
MPU slots	2	N/A	2	2	N/A
Switching fabric slots	6	N/A	6	8	N/A
line-card slots	8	16	16	20	240
Switching capacity	43.2 Tbps	86.4 Tbps	86.4 Tbps	172.8 Tbps	1555.2 Tbps
System aggregated throughput	14.4 Tbps	28.8 Tbps	28.8 Tbps	36 Tbps	432 Tbps
Power module	8 power modules per chassis support for redundancy and smart power management		16 power modules support for redundancy and smart power management	24 power modules per chassis support for redundancy and smart power management	
Fan trays	6 fan trays per chassis support for redundancy and smart heat dissipation		2 fan trays support for redundancy and smart heat dissipation	33 fan trays per chassis support for redundancy and smart heat dissipation	
Dimensions (H × W × D)	843 × 440 × 743 mm (33.19 × 17.32 × 29.25 in), 19 RU		931 × 440 × 857 mm (36.65 × 17.32 × 33.74 in), 21 RU	1820 × 440 × 8 17.32 × 33.46 i	850 mm (71.65 × n), 41 RU
Operating temperature	0°C to 45°C (32°F to 113°F)				
Operating humidity	5% to 95%, non-condensing				
Operating altitude	-60 m (-196.85 ft) to +5000 m (+16404.20 ft)				
Ports	1000BASE-X-SFP fiber ports 10GBASE-R/W-SFP+ fiber ports 40GBASE-R-QSFP+ fiber ports 100GBASE-R-CFP2 fiber ports 100GBASE-R-QSFP28 fiber ports POS-OC192c/STM64c-XFP fiber ports POS-OC48c/OC12c/OC3c-SFP fiber ports				
EMC standards	FCC Part 15 (CFR 47) CLASS A ICES-003 CLASS A VCCI-3 CLASS A VCCI-4 CLASS A CISPR 22 CLASS A EN 55022 CLASS A AS/NZS CISPR22 CLASS A CISPR 24 EN 55024				



	FN (1000 2 2		
	EN 61000-3-2		
	EN 61000-3-3		
	EN 61000-6-1		
	ETSI EN 300 386		
	EN 301 489-1		
	EN 301 489-17		
	UL 60950-1		
	CAN/CSA C22.2 No 60950-1		
	IEC 60950-1		
	EN 60950-1/A11		
Safety standards	AS/NZS 60950		
	EN 60825-1		
	EN 60825-2		
	FDA 21 CFR Subchapter J		
	GB 4943		
	GE, 10GE, 40GE, and 100GE interfaces		
Interfaces	OC-192c/STM-64c POS interfaces		
	POS-OC48c/OC12c/OC3c-SFP interfaces		
	PPP, HDLC		
Data link layer	Ethernet link aggregation, port mirroring		
	DLDP		
QinQ	VLAN termination		
Traffic statistics	Traffic statistics on both the incoming and outgoing traffic		
	Priority marking/remarking		
	CAR (Ingress/Egress)		
	CBQ		
	Congestion management		
QoS	Congestion management Queue scheduling		
QoS			
QoS	Queue scheduling		
QoS	Queue scheduling  QoS policy (applied on an interface, globally, and on the control plane)		
QoS	Queue scheduling  QoS policy (applied on an interface, globally, and on the control plane)  Dynamic modification of QoS policies		
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	Queue scheduling QoS policy (applied on an interface, globally, and on the control plane) Dynamic modification of QoS policies QPPB Ingress/Egress ACL Basic ACLs, advanced ACLs Applying an ACL to an interface or globally TCP, UDP, RawIP, Ping, Traceroute Telnet, FTP, TFTP		
ACL	Queue scheduling QoS policy (applied on an interface, globally, and on the control plane) Dynamic modification of QoS policies QPPB Ingress/Egress ACL Basic ACLs, advanced ACLs Applying an ACL to an interface or globally TCP, UDP, RawIP, Ping, Traceroute Telnet, FTP, TFTP ICMPv4		
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	TCP6, UDP6, RawIP6, Pingv6, Traceroute6
	Telnetv6, FTPv6
	DNS6
	ICMPv6
	VRRPv3
	DHCPv6
	ND
	PMTUD (IPv6)
	6PE
	RIPv1/v2
	OSPFv2
IPv4 routing protocol	IS-IS
a constant	BGPv4
	IPv4 static routing/routing policy/route recursion/policy-based routing
	RIPng
	OSPFv3
IPv6 routing protocol	IS-IS6
in vo routing protocor	BGPv4+
	IPv6 static routing/routing policy/route recursion/policy-based routing
	Static multicast routes
	IPv4 intra-AS multicast routes
	IPv4 inter-AS multicast routes
Layer 3 multicast	IPv4 multicast group management
Layer 5 manteast	IPv6 intra-AS multicast routes
	IPv6 multicast group management
	Multicast VPN
Interconnect	VXLAN
Interconnect	
	Basic MPLS
	MPLS L3VPN
MPLS	VPWS/VPLS
	6VPE
	MPLS TE
	P2MP
SDN	BGP-LS
	BMP
	Flowspec
	Segment routing
	OpenFlow
	PCEP
Device security	Protection against data packet-based attacks
	Protection against protocol packet-based attacks
	Attack detection



	Protection of protocol packets		
	Diagnosis on packet transmitting and receiving		
Network security	Packet validity check		
	uRPF		
	Packet filtering		
	ARP attack protection		
	Protocol-based traffic limiting		
	NetStream		
	Device management security		
User security	AAA		
	SSH		
Device management	CLI management by accessing the device through console port, Telnet, or sTelnet (SSH)		
	Uploading/downloading files through FTP/TFTP		
File management	Formatting files		
	Creating, copying, deleting, saving files and directories		
	Ping		
Network maintenance	TraceRoute		
Network maintenance	LSP Ping/Tracert		
	Loop detection on a port		
	SNMPv3		
Network	IMC		
management and	LLDP/LLDP-MED		
monitoring	MIB		
	PTP		
	Hot swapping of cards		
	Redundancy of switching fabric modules		
	Active/standby switchover		
High availability	Hot patching		
	GR		
	NSR		
	VRRP, VRRPE		
	BFD for VRRP/BGP/IS-IS/RIP/OSPF/static routing		
	IP FRR		

# Ordering guide

PID	Description
CR19000-8	H3C CR19000-8 router chassis
CR19000-16	H3C CR19000-16 router chassis
CR19000-20	H3C CR19000-20 router chassis
Power frame module	
CR-PEM-DC2000	DC 2000W power frame



CR-PEM-AC3000         AC 3000W power frame           CR-PEM-HVDC3000W         HVDC 3000W power frame           Power module         PSR2400-54A           PSR2400-54A         AC 2400W power module           PSR20008-54D         DC 2000W power module           PSR20008-54D         AC 3000W power module (support for HVDC)           MPU module         CR-19K-MPU-08B           CR-19K-MPU-08B         H3C CR19000-8 main processing unit B           CR-19K-MPU-16B         H3C CR19000-16 main processing unit A           CR-19K-MPU-16B         H3C CR19000-16 main processing unit B           CR-19K-MPU-16B         H3C CR19000-20 main processing unit C           Switching fabric module         Watching fabric module           CR-19K-MPU-30C         H3C CR19000-20 fabric module for single-chassis (Class C)           CR-19K-SFU-30C         H3C CR19000-20 fabric module for single-chassis (Class C)           CR-19K-SFU-20C         H3C CR19000-20 fabric module for single-chassis (Class C)           CR-19K-SFU-20C         H3C CR 18-port 100G Ethernet optical interface module (QSFP28)           CR-19K-LPU-C018         H3C CR 12-port 100G Ethernet optical interface module (QSFP28)           CR-19K-LPU-C012B         H3C CR 12-port 100G Ethernet optical interface module (SFP+)           CR-19K-LPU-W04D         H3C CR 6-port 100G Ethernet optical interface module (SFP+)	CD DEM ACCOS	A.C. 2000VV resume from a	
Power module		AC 3000W power frame	
PSR2400-54D		HYDC 3000W power frame	
PSR2400-54A AC 2400W power module PSR2000B-54D DC 2000W power module PSR2000B-54D DC 2000W power module PSR3000B-54AHD AC 3000W power module (support for HVDC)  MPU module  CR-19K-MPU-68B H3C CR19000-8 main processing unit B  CR-19K-MPU-16A H3C CR19000-16 main processing unit A  CR-19K-MPU-16B H3C CR19000-16 main processing unit B  CR-19K-MPU-20C H3C CR19000-20 main processing unit B  CR-19K-MPU-20C H3C CR19000-20 main processing unit C  Switching fabric module  CR-19K-SFU-08C H3C CR19000-8 fabric module for single-chassis (Class C)  CR-19K-SFU-08C H3C CR19000-20 fabric module for single-chassis (Class C)  CR-19K-SFU-08C H3C CR19000-20 fabric module for single-chassis (Class C)  IO Module  CR-19K-FU-C018 H3C CR19000-20 fabric module for single-chassis (Class C)  IO Module  CR-19K-LPU-C018 H3C CR 18-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-C012B H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-C012B H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-C012B H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-C018B H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-C018B H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP+)  CR-19K-LPU-XP48 H3C CR 18-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-8004 H3C CR 18-xible interface module (LPU-8004)  CR-19K-LPU-2002 H3C CR 18-xible interface module (LPU-2002)  CR-19K-LPU-SP H3C CR 18-xible interface module (LPU-SP)  Subcard module  CR-19K-LPU-3004 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-11C-C001 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-11C-C002 H3C CR	-	DC 2400W review mediule	
PSR2000B-54D		· · · · · · · · · · · · · · · · · · ·	
PSR3000B-54AHD			
MPU module         H3C CR19000-8 main processing unit B           CR-19K-MPU-08B         H3C CR19000-16 main processing unit A           CR-19K-MPU-16A         H3C CR19000-16 main processing unit A           CR-19K-MPU-20C         H3C CR19000-20 main processing unit B           CR-19K-MPU-20C         H3C CR19000-20 main processing unit C           Switching fabric module         CR-19K-SFU-08C           CR-19K-SFU-16C         H3C CR19000-16 fabric module for single-chassis (Class C)           CR-19K-SFU-20C         H3C CR19000-20 fabric module for single-chassis (Class C)           IO Module         H3C CR19000-20 fabric module for single-chassis (Class C)           CR-19K-LPU-CQ18         H3C CR 18-port 100G Ethernet optical interface module (QSFP28)           CR-19K-LPU-CQ12         H3C CR 12-port 100G Ethernet optical interface module B (QSFP28)           CR-19K-LPU-CQ12B         H3C CR 12-port 100G Ethernet optical interface module B (QSFP28)           CR-19K-LPU-CQ16B         H3C CR 6-port 100G Ethernet optical interface module B (QSFP28)           CR-19K-LPU-XP72         H3C CR 7-port 10G Ethernet optical interface module (SFP+)           CR-19K-LPU-XP84         H3C CR 7-port 10G Ethernet optical interface module (SFP+)           Service Engine Module         H3C CR flexible interface module (LPU-8004)           CR-19K-LPU-8004         H3C CR flexible interface module (LPU-2002)           CR-19K-LPU			
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CR-19K-MPU-16A H3C CR19000-16 main processing unit A CR-19K-MPU-16B H3C CR19000-16 main processing unit B CR-19K-MPU-20C H3C CR19000-20 main processing unit C Switching fabric module CR-19K-SFU-08C H3C CR19000-8 fabric module for single-chassis (Class C) CR-19K-SFU-16C H3C CR19000-16 fabric module for single-chassis (Class C) CR-19K-SFU-20C H3C CR19000-20 fabric module for single-chassis (Class C) IO Module CR-19K-LPU-CQ18 H3C CR 18-port 100G Ethernet optical interface module (QSFP28) CR-19K-LPU-CQ12 H3C CR 12-port 100G Ethernet optical interface module (QSFP28) CR-19K-LPU-CQ12 H3C CR 12-port 100G Ethernet optical interface module B (QSFP28) CR-19K-LPU-CQ12 H3C CR 12-port 100G Ethernet optical interface module B (QSFP28) CR-19K-LPU-CQ12B H3C CR 12-port 10G Ethernet optical interface module (SFP4) CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP4) CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP4) Service Engine Module CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004) CR-19K-LPU-4004 H3C CR flexible interface module (LPU-2002) CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002) CR-19K-LPU-SP H3C CR flexible interface module (LPU-2002) CR-19K-LPU-SP H3C CR flexible interface module (LPU-2002B) CR-19K-LPU-SP H3C CR flexible interface module (LPU-SP) Subcard module CR-1HC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ01 H3C CR 2-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ03 H3C CR 2-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP4) CR-HIC-CQ02 H3C CR 12-port 100G Ethernet optical interface card (QSFP4) CR-HIC-CQ03 H3C CR 12-port 10G Ethernet optical interface card (QSFP4) CR-HIC-CQ01 H3C CR 12-port 10G Ethernet optical in			
CR-19K-MPU-16B H3C CR19000-16 main processing unit B CR-19K-MPU-20C H3C CR19000-20 main processing unit C Switching fabric module CR-19K-SFU-08C H3C CR19000-8 fabric module for single-chassis (Class C) CR-19K-SFU-16C H3C CR19000-16 fabric module for single-chassis (Class C) CR-19K-SFU-20C H3C CR19000-20 fabric module for single-chassis (Class C) IO Module CR-19K-LPU-CQ18 H3C CR 18-port 100G Ethernet optical interface module (QSFP28) CR-19K-LPU-CQ12 H3C CR 12-port 100G Ethernet optical interface module (QSFP28) CR-19K-LPU-CQ12B H3C CR 12-port 100G Ethernet optical interface module B (QSFP28) CR-19K-LPU-CQ12B H3C CR 72-port 100G Ethernet optical interface module B (QSFP28) CR-19K-LPU-CQ008 H3C CR 72-port 100G Ethernet optical interface module (SFP+) CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP+) Service Engine Module CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004) CR-19K-LPU-8004 H3C CR flexible interface module (LPU-4004) CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002) CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002) CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP) Subcard module CR-19K-LPU-SP H3C CR 1-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ03 H3C CR 3-port 40G Ethernet optical interface card (QSFP28) CR-HIC-CQ03 H3C CR 12-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ01 H3C CR 12-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ01 H3C CR 12-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ01 H3C CR 12-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ01 H3C CR 12-port 100G Ethernet optical interface card (QSFP4) CR-HIC-CQ01 H3C CR 12-port 100G Ethernet optical interface card (QSFP4) CR			
CR-19K-MPU-20C  Switching fabric module  CR-19K-SFU-08C  H3C CR19000-8 fabric module for single-chassis (Class C)  CR-19K-SFU-16C  H3C CR19000-16 fabric module for single-chassis (Class C)  CR-19K-SFU-20C  H3C CR19000-20 fabric module for single-chassis (Class C)  CR-19K-SFU-20C  H3C CR19000-20 fabric module for single-chassis (Class C)  IO Module  CR-19K-LPU-CQ18  H3C CR 18-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12  H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12B  H3C CR 12-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-CQ16B  H3C CR 6-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-XP72  H3C CR 72-port 10G Ethernet optical interface module (SFP+)  CR-19K-LPU-XP48  H3C CR 72-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-8004  H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-4004  H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002  H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B  H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SPP  H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ02  H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ03  H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ03  H3C CR 2-port 100G Ethernet optical interface card (QSFP+)  CR-HIC-CP12  H3C CR 12-port 10G Ethernet optical interface card (QSFP+)  CR-HIC-CP12  H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP12  H3C CR 12-port 10G Ethernet optical interface card (SFP+)	<u></u>		
Switching fabric module  CR-19K-SFU-08C H3C CR19000-8 fabric module for single-chassis (Class C)  CR-19K-SFU-16C H3C CR19000-16 fabric module for single-chassis (Class C)  CR-19K-SFU-20C H3C CR19000-20 fabric module for single-chassis (Class C)  ID Module  CR-19K-LPU-CQ18 H3C CR 18-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12 H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12B H3C CR 12-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-CQ16B H3C CR 6-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP+)  CR-19K-LPU-XP48 H3C CR 72-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-4004 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-SPP H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-SPP H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-SPP H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-3003 H3C CR flexible interface module (LPU-20028)  CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ03 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-Q003 H3C CR 3-port 40G Ethernet optical interface card (QSFP28)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP12 H3C CR 2-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP12 H3C CR 12-port 10G Ethernet optical interface card (SFP)  CR-HIC-CP12 H3C CR 2-port 10G Ethernet optical interface card (SFP)	CR-19K-MPU-16B		
CR-19K-SFU-08C H3C CR19000-8 fabric module for single-chassis (Class C) CR-19K-SFU-16C H3C CR19000-16 fabric module for single-chassis (Class C) CR-19K-SFU-20C H3C CR19000-20 fabric module for single-chassis (Class C)  IO Module CR-19K-LPU-CQ18 H3C CR 18-port 100G Ethernet optical interface module (QSFP28) CR-19K-LPU-CQ12 H3C CR 12-port 100G Ethernet optical interface module (QSFP28) CR-19K-LPU-CQ12B H3C CR 12-port 100G Ethernet optical interface module B (QSFP28) CR-19K-LPU-CQ06B H3C CR 6-port 100G Ethernet optical interface module B (QSFP28) CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP+) CR-19K-LPU-XP48 H3C CR 72-port 10G Ethernet optical interface module (SFP+) Service Engine Module CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004) CR-19K-LPU-4004 H3C CR flexible interface module (LPU-4004) CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002) CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B) CR-19K-LPU-SP H3C CR flexible service processing module (LPU-SP) Subcard module CR-HIC-CG01 H3C CR 4-port 50G/2-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ03 H3C CR 2-port 100G Ethernet optical interface card (QSFP28) CR-HIC-CQ03 H3C CR 3-port 40G Ethernet optical interface card (QSFP28) CR-HIC-CP12 H3C CR 12-port 10G Ethernet optical interface card (QSFP28) CR-HIC-CP12 H3C CR 12-port 10G Ethernet optical interface card (QSFP28) CR-HIC-CP12 H3C CR 12-port 10G Ethernet optical interface card (QSFP2+) CR-HIC-CP12 H3C CR 12-port 10G Ethernet optical interface card (SFP+) CR-HIC-CP12 H3C CR 12-port 10G Ethernet optical interface card (SFP+) CR-HIC-CP12 H3C CR 12-port 10G Ethernet optical interface card (SFP+) CR-HIC-CP12 H3C CR 12-port 10G POS optical interface card (XFP)		H3C CR19000-20 main processing unit C	
CR-19K-SFU-16C H3C CR19000-16 fabric module for single-chassis (Class C)  CR-19K-SFU-20C H3C CR19000-20 fabric module for single-chassis (Class C)  IO Module  CR-19K-LPU-CQ18 H3C CR 18-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12 H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12B H3C CR 12-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-CQ06B H3C CR 6-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP+)  CR-19K-LPU-XP48 H3C CR 72-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-4004 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ01 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-Q03 H3C CR 3-port 40G Ethernet optical interface card (QSFP28)  CR-HIC-Q04 H3C CR 12-port 10G Ethernet optical interface card (QSFP28)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP12 H3C CR 2-port 10G Ethernet optical interface card (SFP)  CR-HIC-CP12 H3C CR 2-port 10G POS optical interface card (SFP)	Switching fabric module		
CR-19K-SFU-20C  IO Module  CR-19K-LPU-CQ18  H3C CR 18-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12  H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12B  H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12B  H3C CR 12-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-CQ06B  H3C CR 6-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-XP72  H3C CR 72-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-XP48  H3C CR 48-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-8004  H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-2002  H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002  CR-19K-LPU-2002B  H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP  H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F  H3C CR 4-port 50G/2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ01  H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03  H3C CR 3-port 40G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03  H3C CR 12-port 10G Ethernet optical interface card (QSFP28)  CR-HIC-XP12B  H3C CR 12-port 10G Ethernet optical interface card (GSFP+)  CR-HIC-XP10  H3C CR 12-port 10G Ethernet optical interface card (GSFP+)  CR-HIC-XP10  H3C CR 12-port 10G Ethernet optical interface card (GSFP+)  CR-HIC-CP12  H3C CR 12-port 10G Ethernet optical interface card (GFP-)  CR-HIC-CP12  H3C CR 12-port 10G POS optical interface card (GFP-)	CR-19K-SFU-08C	H3C CR19000-8 fabric module for single-chassis (Class C)	
CR-19K-LPU-CQ18 H3C CR 18-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12 H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12B H3C CR 12-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-CQ06B H3C CR 6-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP+)  CR-19K-LPU-XP48 H3C CR 48-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-4004 H3C CR flexible interface module (LPU-4004)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ03 H3C CR 3-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03 H3C CR 3-port 10G Ethernet optical interface card (QSFP28)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP01 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP01 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP02 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP01 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP01 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP02 H3C CR 12-port 10G Ethernet optical interface card (SFP-)  CR-HIC-CP02 H3C CR 12-port 10G Ethernet optical interface card (SFP-)  CR-HIC-CP02 H3C CR 12-port 10G POS optical interface card (SFP-)	CR-19K-SFU-16C	H3C CR19000-16 fabric module for single-chassis (Class C)	
CR-19K-LPU-CQ12 H3C CR 18-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12 H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12B H3C CR 12-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-CQ06B H3C CR 6-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP+)  CR-19K-LPU-XP48 H3C CR 48-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-4004 H3C CR flexible interface module (LPU-4004)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-Q03 H3C CR 3-port 40G Ethernet optical interface card (QSFP28)  CR-HIC-Q04B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP01 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP02 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP02 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP02 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP02 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP02 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP02 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-CP02 H3C CR 12-port 10G Sethernet optical interface card (SFP-)	CR-19K-SFU-20C	H3C CR19000-20 fabric module for single-chassis (Class C)	
CR-19K-LPU-CQ12 H3C CR 12-port 100G Ethernet optical interface module (QSFP28)  CR-19K-LPU-CQ12B H3C CR 12-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-CQ06B H3C CR 6-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP+)  CR-19K-LPU-XP48 H3C CR 48-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-4004 H3C CR flexible interface module (LPU-4004)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ01 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-Q03 H3C CR 3-port 40G Ethernet optical interface card (QSFP28)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (QSFP+)  CR-HIC-XP10 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 2-port 10G POS optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (SFP)	IO Module		
CR-19K-LPU-CQ12B H3C CR 12-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-CQ06B H3C CR 6-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP+)  CR-19K-LPU-XP48 H3C CR 48-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-4004 H3C CR flexible interface module (LPU-4004)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-Q001 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-Q003 H3C CR 3-port 40G Ethernet optical interface card (QSFP28)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-XP10 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port 10G POS optical interface card (SFP)  CR-HIC-PU02 H3C CR 12-port 10G POS optical interface card (SFP)	CR-19K-LPU-CQ18	H3C CR 18-port 100G Ethernet optical interface module (QSFP28)	
CR-19K-LPU-CQ06B H3C CR 6-port 100G Ethernet optical interface module B (QSFP28)  CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP+)  CR-19K-LPU-XP48 H3C CR 48-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-4004 H3C CR flexible interface module (LPU-4004)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-Q001 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-Q003 H3C CR 3-port 40G Ethernet optical interface card (QSFP28)  CR-HIC-Q003 H3C CR 12-port 10G Ethernet optical interface card (QSFP4)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port 10G POS optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (SFP)	CR-19K-LPU-CQ12	H3C CR 12-port 100G Ethernet optical interface module (QSFP28)	
CR-19K-LPU-XP72 H3C CR 72-port 10G Ethernet optical interface module (SFP+)  CR-19K-LPU-XP48 H3C CR 48-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-4004 H3C CR flexible interface module (LPU-4004)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-Q03 H3C CR 3-port 40G Ethernet optical interface card (QSFP28)  CR-HIC-Q03 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port 10G Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-19K-LPU-CQ12B	H3C CR 12-port 100G Ethernet optical interface module B (QSFP28)	
CR-19K-LPU-XP48 H3C CR 48-port 10G Ethernet optical interface module (SFP+)  Service Engine Module  CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-4004 H3C CR flexible interface module (LPU-4004)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03 H3C CR 2-port 100G Ethernet optical interface card (QSFP4)  CR-HIC-QP12 H3C CR 12-port 10G Ethernet optical interface card (QSFP+)  CR-HIC-XP10 H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port 10G POS optical interface card (XFP)	CR-19K-LPU-CQ06B	H3C CR 6-port 100G Ethernet optical interface module B (QSFP28)	
Service Engine Module  CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-4004 H3C CR flexible interface module (LPU-4004)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03 H3C CR 3-port 40G Ethernet optical interface card (QSFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card B (SFP+)  CR-HIC-XP10 H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port 10G POS optical interface card (XFP)	CR-19K-LPU-XP72	H3C CR 72-port 10G Ethernet optical interface module (SFP+)	
CR-19K-LPU-8004 H3C CR flexible interface module (LPU-8004)  CR-19K-LPU-4004 H3C CR flexible interface module (LPU-4004)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-Q02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-Q03 H3C CR 3-port 40G Ethernet optical interface card (QSFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-XP10 H3C CR 12-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-19K-LPU-XP48	H3C CR 48-port 10G Ethernet optical interface module (SFP+)	
CR-19K-LPU-4004 H3C CR flexible interface module (LPU-4004)  CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03 H3C CR 3-port 40G Ethernet optical interface card (QSFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-XP10 H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	Service Engine Module		
CR-19K-LPU-2002 H3C CR flexible interface module (LPU-2002)  CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card(QSFP28)  CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03 H3C CR 3-port 40G Ethernet optical interface card (QSFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card B (SFP+)  CR-HIC-XP10 H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-19K-LPU-8004	H3C CR flexible interface module (LPU-8004)	
CR-19K-LPU-2002B H3C CR flexible interface module (LPU-2002B)  CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card(QSFP28)  CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03 H3C CR 3-port 40G Ethernet optical interface card (QSFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card (SFP+)  CR-HIC-XP10 H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-19K-LPU-4004	H3C CR flexible interface module (LPU-4004)	
CR-19K-LPU-SP H3C CR flexible service processing module(LPU-SP)  Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card(QSFP28)  CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03 H3C CR 3-port 40G Ethernet optical interface card (QSFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card B (SFP+)  CR-HIC-XP10 H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-19K-LPU-2002	H3C CR flexible interface module (LPU-2002)	
Subcard module  CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card(QSFP28)  CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03 H3C CR 3-port 40G Ethernet optical interface card (QSFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card B (SFP+)  CR-HIC-XP10 H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-19K-LPU-2002B	H3C CR flexible interface module (LPU-2002B)	
CR-HIC-CLGQ04F H3C CR 4-port 50G/2-port 100G Ethernet optical interface card(QSFP28)  CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03 H3C CR 3-port 40G Ethernet optical interface card (QSFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card B (SFP+)  CR-HIC-XP10 H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-19K-LPU-SP	H3C CR flexible service processing module(LPU-SP)	
CR-HIC-CQ01 H3C CR 1-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03 H3C CR 3-port 40G Ethernet optical interface card (QSFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card B (SFP+)  CR-HIC-XP10 H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	Subcard module		
CR-HIC-CQ02 H3C CR 2-port 100G Ethernet optical interface card (QSFP28)  CR-HIC-QQ03 H3C CR 3-port 40G Ethernet optical interface card (QSFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card B (SFP+)  CR-HIC-XP10 H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-HIC-CLGQ04F	H3C CR 4-port 50G/2-port 100G Ethernet optical interface card(QSFP28)	
CR-HIC-QQ03 H3C CR 3-port 40G Ethernet optical interface card (QSFP+)  CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card B (SFP+)  CR-HIC-XP10 H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-HIC-CQ01	H3C CR 1-port 100G Ethernet optical interface card (QSFP28)	
CR-HIC-XP12B H3C CR 12-port 10G Ethernet optical interface card B (SFP+)  CR-HIC-XP10 H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-HIC-CQ02	H3C CR 2-port 100G Ethernet optical interface card (QSFP28)	
CR-HIC-XP10 H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)  CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-HIC-QQ03	H3C CR 3-port 40G Ethernet optical interface card (QSFP+)	
CR-HIC-GP12 H3C CR 12-port Gigabit Ethernet optical interface card (SFP)  CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-HIC-XP12B	H3C CR 12-port 10G Ethernet optical interface card B (SFP+)	
CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-HIC-XP10	H3C CR 10-port 1G/10G Ethernet optical interface card (SFP+)	
CR-HIC-PU02 H3C CR 2-port 10G POS optical interface card (XFP)	CR-HIC-GP12	H3C CR 12-port Gigabit Ethernet optical interface card (SFP)	
CR-HIC-PS04 H3C CR 4-port 2.5G/622M/155M POS optical interface card (SFP)	CR-HIC-PU02	H3C CR 2-port 10G POS optical interface card (XFP)	
	CR-HIC-PS04		



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