

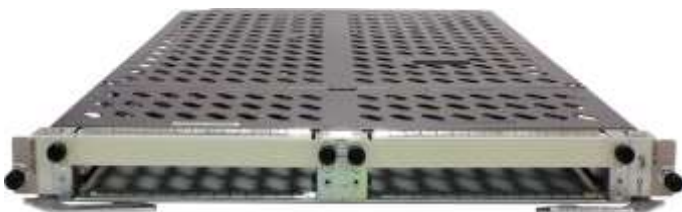
Product Overview

Huawei NE40E Series Universal Service Routers support two kinds of 50 Gbps flexible card line processing units, LPUF-51 Series and LPUF-50 Series. The LPUF-51 Series and LPUF-50 Series line processing units handle all the network data-plane traffic-processing tasks of Huawei NE40E series universal service routers.

Line Processing Units and Flexible Cards of LPUF-50 Series



Flexible Card Line Processing Unit(LPUF-50,four sub-slots)



Flexible Card Line Processing Unit(LPUF-50,four sub-slots,4G Memory)



8-Port 100/1000Base-X-SFP Flexible Card A(P10-A, Supporting 1588v2)



2-Port 10GBase WAN/LAN-SFP+ Flexible Card A



8-Port OC-3c/STM-1c POS-SFP Flexible Card



4-Port OC-3c/STM-1c POS-SFP Flexible Card



2-Port OC-3c/STM-1c POS-SFP Flexible Card



24-Port Channelized E1/T1-DB100 Flexible Card



2-Port Channelized OC-3c/STM-1c POS-SFP Flexible Card



2-Port Channelized STM-1c POS-SFP Flexible Card(P50)



4-Port Channelized STM-1c POS-SFP Flexible Card(P50)



8-Port Channelized STM-1c POS-SFP Flexible Card(P50)



8-Port OC-12c/STM-4c POS-SFP Flexible Card



2-Port OC-48c/STM-16c POS-SFP Flexible Card



4-Port OC-48c/STM-16c POS-SFP Flexible Card



1-Port OC-192c/STM-64c POS-XFP Flexible Card (Occupies two slots)

Line Processing Units and Flexible Cards of LPUF-51 Series



Flexible Card Line Processing Unit (LPUF-51, 2 sub-slots) B



Flexible Card Line Processing Unit (LPUF-51, 2 sub-slots) E



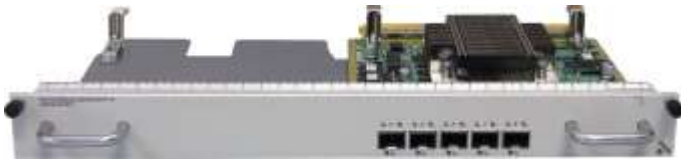
24-Port 100/1000Base-X-SFP Flexible Card A (P51-A)



24-Port 1000Base-X-SFP Flexible Card E(P52-E)



5-Port 10GBase LAN/WAN-SFP+ Flexible Card A(P51-A, Occupy two sub-slots)



5-Port 10GBase LAN/WAN-SFP+ Flexible Card E(P52-E, Occupy two sub-slots)



2-Port 10GBase LAN/WAN-SFP+ Flexible Card E(P52-E)



2-Port 10GBase LAN/WAN-SFP+ Flexible Card A(P51-A)



20-Port 10/100/1000Base-RJ45 Flexible Card A(P51-A)



2-Port OC-192c/STM-64c POS-XFP Flexible Card(P51-A)

Product Features

The LPUF-51 Series supports 5-port/2-port 10GE flexible cards, 24-port FE/GE flexible cards, 20-port 10/100/1000Base-RJ45 flexible cards, and 2-port POS flexible cards, for flexible solutions. A 5-port/2-port 10GE flexible card provides multiple 10 Gbit/s line-rate Ethernet interfaces and supports medium-scale 10 Gbit/s link aggregation. A 24-port FE/GE or a 20-port 10/100/1000Base-RJ45 flexible card boasts high port density and supports compatibility and communications with standard fast Ethernet. It can be used for large-scale 10M, 100M, and 1000M Ethernet interconnection. A 2-port POS flexible card can be used for transmitting IP over SONET/SDH link, which can be used in the access/aggregation layer of LAN network and the uplink of WAN network.

The LPUF-50 Series supports 2-port 10GE flexible cards, 8-port FE/GE flexible cards, 1-port/2-port/4-port/8-port POS and CPOS flexible cards. The POS and CPOS flexible cards can be used for transmitting IP over SONET/SDH link, which can be used in the access/aggregation layer of LAN network and the uplink of WAN network. These ethernet, POS and CPOS line cards can be installed in the same LPUF-50 line processing unit.

LPUF-50/51 Series high-capacity line cards are designed to remove bandwidth bottlenecks that are caused by next-generation high-speed and high-requirement computing applications and technologies. These line cards provide economical, scalable, and reliable line-rate Ethernet and IP/MPLS services.

LPUF-50/51 provides powerful service capability. The LPUF-50/51 supports the combination of IP, MPLS, Ethernet, L2VPN, and L3VPN services. In addition, the LPUF-50/51 supports the 1588v2 feature (-E flexible card does not support 1588v2), which allows for submicrosecond time synchronization based on specific hardware to ensure high-precision time synchronization between devices for applications and services that require 1588v2 clock synchronization, such as IP RAN and TDM migration. The LPUF-50/51 supports IPv6, which helps implement smooth IPv4-to-IPv6 transition. The LPUF-50/51 has a flexible programmable architecture. Microcode programming can be used for new service deployment, without the need to replace hardware, which reduces investments. In addition, this architecture drastically shortens the technological innovation cycle and accelerates new service rollout, helping customers build flexible and scalable networks.

LPUF-50/51 Series line processing units can dynamically change the number of forwarding chip processing cores, frequency, and bus bandwidth to compensate for service traffic changes, reducing boards' power consumption. The LPUF-50/51 Series line processing units also support dynamic frequency adjustment and intelligent fan speed adjustment, which significantly reduces power consumption, with less than 0.9 W for each gigabit, lowest in the industry.

LPUF-50/51 Series line processing units and flexible cards support for online insertion and removal (OIR) without system impact, which offers maximum investment protection and flexibility by allowing operators to upgrade to future LPU on NE40E.

NOTE

Differences between the LPUF-51-B and the LPUF-51-E:

- LPUF-51-B does not support BRAS function, such as Enhanced Dynamic Service Gateway (EDSG), and does not support L3VPN by default. After being loaded with specific license, it supports L3VPN.
- LPUF-51-E support L3VPN by default and supports BRAS function by default.

Differences between the P51-A and the P51-E flexible card:

- P51-A supports 1588v2, and can be installed in LPUF-51-B and LPUF-51-E.
- P51-E does not support 1588v2, and can be installed only in LPUF-51-E.

Product Compatibility

LPUF-50 Series Compatible Chassis

LPUF-50 Series Compatible Chassis("•" indicates supported items, "-" indicates unsupported items).

BOM	Order Name	Description	-	-	-	-	-	-
03054447	CR5DLP UF5070	Flexible Card Line Processing Unit(LPUF-50,four sub-slots)	•	•	•	•	•	•
03057436	CR5DLP UF5071	Flexible Card Line Processing Unit(LPUF-50,four sub-slots,4G Memory)	•	•	•	•	•	•
03030KN E	CR5M0E 8GFA30	8-Port 100/1000Base-X-SFP Flexible Card A(P10-A,Supporting 1588v2)	•	•	•	•	•	•
03030NS K	CR5D0L2 XFA70	2-Port 10GBase WAN/LAN-SFP+ Flexible Card A	•	•	•	•	•	•
03030JU A	CR53- P10- 8xPOS/S TM1-SFP	8-Port OC-3c/STM-1c POS-SFP Flexible Card	•	•	•	•	•	•
03030JT Y	CR53- P10- 4xPOS/S TM1-SFP	4-Port OC-3c/STM-1c POS-SFP Flexible Card	•	•	•	•	•	•
03031JY H	CR5D00 P2CF70	2-Port OC-3c/STM-1c POS-SFP Flexible Card	•	•	•	•	•	•
03030KH P	CR53- P10- 24xcE1/c T1- DB100	24-Port Channelized E1/T1-DB100 Flexible Card	•	•	•	•	•	•
03031JY K	CR5D00 C2CF70	2-Port Channelized STM-1c POS-SFP Flexible Card(P50)	•	•	•	•	•	•
03030PV G	CR5D00 C4CF70	4-Port Channelized STM-1 POS-SFP Flexible Card(P50)	•	•	•	•	•	•
03030PT	CR5D00	8-Port Channelized STM-1 POS-	•	•	•	•	•	•

BOM	Order Name	Description	-	-	-	-	-	-
B	C8CF71	SFP Flexible Card(P50)						
03030JUB	CR53-P10-8xPOS/S TM4-SFP	8-Port OC-12c/STM-4c POS-SFP Flexible Card	•	•	•	•	•	•
03030H NJ	CR53-P10-2xPOS/S TM16-SFP	2-Port OC-48c/STM-16c POS-SFP Flexible Card	•	•	•	•	•	•
03030J CX	CR53-P10-4xPOS/S TM16-SFP	4-Port OC-48c/STM-16c POS-SFP Flexible Card	•	•	•	•	•	•
03030F SL	CR53-P10-1xPOS/S TM64-XFP	1-Port OC-192c/STM-64c POS-XFP Flexible Card(Occupy two slots)	•	•	•	•	•	•
03030K BB	CR53-P10-2xcPOS/STM1-SFP	2-Port Channelized OC-3c/STM-1c POS-SFP Flexible Card	•	•	•	•	•	•

LPUF-50 Series Compatible Optical/Electrical Modules

LPUF-50 Series Compatible Optical/Electrical Modules

BOM Number	Order Name	Board Name	Optical type supported
03031JYH	CR5D00P2CF70	2-Port OC-3c/STM-1c POS-SFP Flexible Card	155Mbps eSFP optical module
03030JTY	CR53-P10-4xPOS/STM1-SFP	4-Port OC-3c/STM-1c POS-SFP Flexible Card	155Mbps eSFP optical module
03030JUA	CR53-P10-8xPOS/STM1-SFP	8-Port OC-3c/STM-1c POS-SFP Flexible Card	155Mbps eSFP optical module
03031JYK	CR5D00C2CF70	2-Port Channelized STM-1c POS-SFP Flexible Card(P50)	155Mbps eSFP optical module
03030KNE	CR5M0E8GFA30	8-Port 100/1000Base-X-SFP Flexible Card A(P10-A, Supporting 1588v2)	155Mbps eSFP optical module 155Mbps eSFP BIDI optical module 1Gbps electrical module 1.25Gbps eSFP optical module 1.25Gbps eSFP CWDM optical module 1.25Gbps eSFP BIDI optical

BOM Number	Order Name	Board Name	Optical type supported
			module 125M~2.67Gbps eSFP DWDM optical module
03030NSK	CR5D0L2XFA70	2-Port 10GBase WAN/LAN-SFP+ Flexible Card A	10Gbps SFP+ optical module 10Gbps SFP+ CWDM optical module 10Gbps SFP+ BIDI optical module 10Gbps SFP+ DWDM optical module
03030PVG	CR5D00C4CF70	4-Port Channelized STM-1 POS-SFP Flexible Card(P50)	155Mbps eSFP optical module
03030PTB	CR5D00C8CF71	8-Port Channelized STM-1 POS-SFP Flexible Card(P50)	155Mbps eSFP optical module
03030FSL	CR53-P10-1xPOS/STM64-XFP	1-Port OC-192c/STM-64c POS-XFP Flexible Card(Occupy two slots)	10Gbps XFP optical module 10Gbps XFP CWDM optical module
03030HNJ	CR53-P10-2xPOS/STM16-SFP	2-Port OC-48c/STM-16c POS-SFP Flexible Card	2.5Gbps eSFP optical module
03030JCX	CR53-P10-4xPOS/STM16-SFP	4-Port OC-48c/STM-16c POS-SFP Flexible Card	2.5Gbps eSFP optical module
03030JUB	CR53-P10-8xPOS/STM4-SFP	8-Port OC-12c/STM-4c POS-SFP Flexible Card	622Mbps eSFP optical module
03030KBB	CR53-P10-2xcPOS/STM1-SFP	2-Port Channelized OC-3c/STM-1c POS-SFP Flexible Card	155Mbps eSFP optical module

Flexible Card Line Processing Unit(LPUF-50,four sub-slots) Specifications

Flexible Card Line Processing Unit(LPUF-50,four sub-slots) Specifications

Item	Description
Order Name	CR5DLPUF5070
Silkscreen	LPUF-50
Dimensions (H x W x D)	40.1 mm x 399.2 mm x 535.6 mm (1.58 in. x 15.72 in. x 21.09 in.)
Weight	8.2 kg (18.08 lb)
Typical power consumption	169.0 W
Typical heat dissipation	548.3 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)

Item	Description
Reliability and availability	Hot swappable.

Flexible Card Line Processing Unit(LPUF-50,four sub-slots,4G Memory) Specifications

Flexible Card Line Processing Unit(LPUF-50,four sub-slots,4G Memory) Specifications

Item	Description
Order Name	CR5DLPUF5071
Silkscreen	LPUF-50
Dimensions (H x W x D)	40.1 mm x 399.2 mm x 535.6 mm (1.58 in. x 15.72 in. x 21.09 in.)
Weight	8.2 kg (18.08 lb)
Typical power consumption	171.0 W
Typical heat dissipation	554.8 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Reliability and availability	Hot swappable.

8-Port 100/1000Base-X-SFP Flexible Card A(P10-A,Supporting 1588v2) Specifications

8-Port 100/1000Base-X-SFP Flexible Card A(P10-A,Supporting 1588v2) Specifications

Item	Description
Order Name	CR5M0E8GFA30
Silkscreen	P10-8xGE/FE-SFP-A
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	19.5 W
Typical heat dissipation	63.3 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

2-Port 10GBase WAN/LAN-SFP+ Flexible Card A Specifications

2-Port 10GBase WAN/LAN-SFP+ Flexible Card A Specifications

Item	Description
Order Name	CR5D0L2XFA70
Silkscreen	P50-2x10GBase LAN/WAN-SFP+ -A
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	18.4 W
Typical heat dissipation	59.7 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	SFP+
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

8-Port OC-3c/STM-1c POS-SFP Flexible Card Specifications

8-Port OC-3c/STM-1c POS-SFP Flexible Card Specifications

Item	Description
Order Name	CR53-P10-8xPOS/STM1-SFP
Silkscreen	FPIC-8xOC3-POS
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	19.5 W
Typical heat dissipation	63.3 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	PPP and HDLC
Reliability and availability	Hot swappable.

4-Port OC-3c/STM-1c POS-SFP Flexible Card Specifications

4-Port OC-3c/STM-1c POS-SFP Flexible Card Specifications

Item	Description
Order Name	CR53-P10-4xPOS/STM1-SFP
Silkscreen	FPIC-4xOC3-POS
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	16.6 W
Typical heat dissipation	53.9 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	PPP and HDLC
Reliability and availability	Hot swappable.

2-Port OC-3c/STM-1c POS-SFP Flexible Card Specifications

2-Port OC-3c/STM-1c POS-SFP Flexible Card Specifications

Item	Description
Order Name	CR5D00P2CF70
Silkscreen	FPIC-2xOC3-POS
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	16.6 W
Typical heat dissipation	53.9 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	PPP and HDLC
Reliability and availability	Hot swappable.

24-Port Channelized E1/T1-DB100 Flexible Card Specifications

24-Port Channelized E1/T1-DB100 Flexible Card Specifications

Item	Description
Order Name	CR53-P10-24xcE1/cT1-DB100
Silkscreen	24xcE1/cT1-DB100
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	26.7 W
Typical heat dissipation	86.6 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	DB100
Working mode	Full-duplex
Frame format	Supports E1/CE1, which supports non-framed, CRC4 and NO-CRC4.
Reliability and availability	Hot swappable.

2-Port Channelized OC-3c/STM-1c POS-SFP Flexible Card Specifications

2-Port Channelized OC-3c/STM-1c POS-SFP Flexible Card Specifications

Item	Description
Order Name	CR53-P10-2xcPOS/STM1-SFP
Silkscreen	FPIC-2xOC3c CPOS
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	31.2 W
Typical heat dissipation	101.2 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	The 155M interface supports SDH, the channelized e1 supports non-framed, CRC4 and NO-CRC4.
Reliability and availability	Hot swappable.

2-Port Channelized STM-1c POS-SFP Flexible Card(P50) Specifications

2-Port Channelized STM-1c POS-SFP Flexible Card(P50) Specifications

Item	Description
Order Name	CR5D00C2CF70
Silkscreen	P50-2xSTM1 cPOS-SFP
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	18.0 W
Typical heat dissipation	58.4 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	The 155M interface supports SDH, the channelized e1 supports non-framed, CRC4 and NO-CRC4.
Reliability and availability	Hot swappable.

4-Port Channelized STM-1 POS-SFP Flexible Card(P50) Specifications

4-Port Channelized STM-1 POS-SFP Flexible Card(P50) Specifications

Item	Description
Order Name	CR5D00C4CF70
Silkscreen	P50-4xSTM1 cPOS-SFP
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	18.0 W
Typical heat dissipation	58.4 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	The 155M interface supports SDH, the channelized e1 supports non-framed, CRC4 and NO-CRC4.
Reliability and availability	Hot swappable.

8-Port Channelized STM-1 POS-SFP Flexible Card(P50) Specifications

8-Port Channelized STM-1 POS-SFP Flexible Card(P50) Specifications

Item	Description
Order Name	CR5D00C8CF71
Silkscreen	P50-8xSTM1 cPOS-SFP
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.7 kg (1.54 lb)
Typical power consumption	22.4 W
Typical heat dissipation	72.7 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	The 155M interface supports SDH, the channelized e1 supports non-framed, CRC4 and NO-CRC4.
Reliability and availability	Hot swappable.

8-Port OC-12c/STM-4c POS-SFP Flexible Card Specifications

8-Port OC-12c/STM-4c POS-SFP Flexible Card Specifications

Item	Description
Order Name	CR53-P10-8xPOS/STM4-SFP
Silkscreen	FPIC-8xOC12-POS
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	22.4 W
Typical heat dissipation	72.7 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	PPP and HDLC
Reliability and availability	Hot swappable.

2-Port OC-48c/STM-16c POS-SFP Flexible Card Specifications

2-Port OC-48c/STM-16c POS-SFP Flexible Card Specifications

Item	Description
Order Name	CR53-P10-2xPOS/STM16-SFP
Silkscreen	FPIC-2xOC48-POS
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	17.3 W
Typical heat dissipation	56.1 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	PPP and HDLC
Reliability and availability	Hot swappable.

4-Port OC-48c/STM-16c POS-SFP Flexible Card Specifications

4-Port OC-48c/STM-16c POS-SFP Flexible Card Specifications

Item	Description
Order Name	CR53-P10-4xPOS/STM16-SFP
Silkscreen	FPIC-4xOC48-POS
Dimensions (H x W x D)	18.4 mm x 169 mm x 189.9 mm (0.72 in. x 6.65 in. x 7.48 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	20.3 W
Typical heat dissipation	65.9 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	PPP and HDLC
Reliability and availability	Hot swappable.

1-Port OC-192c/STM-64c POS-XFP Flexible Card(Occupy two slots) Specifications

1-Port OC-192c/STM-64c POS-XFP Flexible Card(Occupy two slots) Specifications

Item	Description
Order Name	CR53-P10-1xPOS/STM64-XFP
Silkscreen	FPIC-1xOC192-POS
Dimensions (H x W x D)	38.0 mm x 169 mm x 189.9 mm (1.5 in. x 6.65 in. x 7.48 in.)
Weight	0.6 kg (1.32 lb)
Typical power consumption	20.0 W
Typical heat dissipation	64.9 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) ; Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	XFP
Working mode	Full-duplex
Frame format	PPP and HDLC
Reliability and availability	Hot swappable.

For More Information


For more information about the Series Routers, visit <http://e.huawei.com> or contact us in the following ways:

- Global service hotline: <http://e.huawei.com/en/service-hotline>
- Logging into the Huawei Enterprise technical support web: <http://support.huawei.com/enterprise/>
- Sending an email to the customer service mailbox: support_e@huawei.com

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