

# NE40E Series 240G Integrated Line Processing Units Data Sheet



## Product Overview

Huawei® NE40E Series Universal Service Routers support 240Gbps integrated line processing units (LPUI-240 Series). LPUI-240 Series integrated line processing units handle all the network data-plane traffic-processing tasks of Huawei NE40E series universal service routers.

**Figure 1.** NE40E LPUI-240 Series Integrated Line Processing Units



2-Port 100GBase-CFP Integrated Line Processing Unit (LPUI-240)



2-Port 100GBase LAN-CFP Integrated Line Processing Unit B (LPUI-240-B)



1-Port 100GBase-CFP + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240)



1-Port 100GBase-CFP + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B (LPUI-240-B)



6-Port 40GBase-QSFP+ Integrated Line Processing Unit (LPUI-240)



6-Port 40GBase-QSFP+ Integrated Line Processing Unit (LPUI-240-B)



24-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240)



24-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B (LPUI-240-B)



2-Port 100GBase-CFP2 Integrated Line Processing Unit  
(LPUI-240)



2-Port 100GBase-QSFP28 Integrated Line Processing Unit (LPUI-240)



1-Port 100GBase-CFP2 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit  
(LPUI-240)



1-Port 100GBase-QSFP28 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit  
(LPUI-240)



2-Port 100GBase-CFP2 Integrated Line Processing Unit B(LPUI-240-B)



2-Port 100GBase-QSFP28 Integrated Line Processing Unit B(LPUI-240-B)



1-Port 100GBase-CFP2 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B)



1-Port 100GBase-QSFP28 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B)

## Product Features

The LPUI-240 Series supports the following kinds of integrated line processing units:

- 2-port 100GE integrated line processing unit: has industry-leading 100G line-rate Ethernet interfaces, which can replace a large number of 10GE link aggregation bundles to simplify network operations.
- 24-port 10GE integrated line processing unit: boasts industry-leading high interface density and supports large-scale aggregation for scalable Ethernet and IP/Multi-protocol Label Switching (IP/MPLS) networks.
- 1-port 100GE and 12-port 10GE integrated line processing unit: has the advantages of the 2-port 100GE integrated line processing unit and the 20-port 10GE integrated line processing unit.
- 6-port 40GE integrated line processing unit: has 40G line-rate Ethernet interfaces, can be used to process traffic at the aggregation and core layers can resolve this problem by simplifying networks and reducing OPEX. It can be used at the data center egress routers or data center core/aggregation layer devices.

These high-capacity integrated line processing units 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.

The LPUI-240 uses Huawei-developed Solar chips and provides powerful service capability. The LPUI-240 supports the combination of IP, MPLS, Ethernet, L2VPN, and L3VPN services. In addition, the LPUI-240 supports the 1588v2 feature, 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 LPUI-240 supports IPv6, which helps implement smooth IPv4-to-IPv6 transition. The LPUI-240 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.

LPUI-240 Series use Huawei-developed Solar chips and 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 LPUI-240 Series 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.

#### NOTE

Differences between the LPUI-240 and LPUI-240-B:

LPUI-240 supports L3VPN and 1588v2 by default, and does not support BRAS functions, such as Enhanced Dynamic Service Gateway (EDSG), by default. After being loaded with specific license, it supports BRAS functions.

LPUI-240-B does not support L3VPN by default. It supports 1588v2. LPUI-240-B does not support BRAS functions.

## Product Compatibility

**Table 1.** 240G Integrated Line Processing Units Compatible Chassis ("●" indicates supported items, "-" indicates unsupported items).

BOM	Order Name	Description	X3	X8	X16	X3A	X8A	X16A
03054691	CR5DooE2NC70	2-Port 100GBase-CFP Integrated Line Processing Unit (LPUI-240)	-	●	●	-	●	●
03054692	CR5DooLFXF70	24-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240)	-	●	●	-	●	●
03054693	CR5DE2NLB X70	1-Port 100GBase-CFP + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240)	-	●	●	-	●	●
03056105	CR5DoE6MF A70	6-Port 40GBase-QSFP+ Integrated Line Processing Unit (LPUI-240)	-	●	●	-	●	●
03054694	CR5DooE2NC73	2-Port 100GBase LAN-CFP Integrated Line Processing Unit B(LPUI-240-B)	-	●	●	-	●	●

BOM	Order Name	Description	X3	X8	X16	X3A	X8A	X16A
03054695	CR5DooLFXF73	24-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B)	-	●	●	-	●	●
03054696	CR5DE2NLBX73	1-Port 100GBase-CFP + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B)	-	●	●	-	●	●
03056106	CR5DoE6MFA71	6-Port 40GBase-QSFP+ Integrated Line Processing Unit (LPUI-240-B)	-	●	●	-	●	●
03057447	CR5DooE2NC71	2-Port 100GBase-CFP2 Integrated Line Processing Unit (LPUI-240)	-	●	●	-	●	●
03057484	CR5DooE2ND70	2-Port 100GBase-QSFP28 Integrated Line Processing Unit (LPUI-240)	-	●	●	-	●	●
03057448	CR5DE1NLBX70	1-Port 100GBase-CFP2 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240)	-	●	●	-	●	●
03057485	CR5DE1NLBX72	1-Port 100GBase-QSFP28 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240)	-	●	●	-	●	●
03057449	CR5DooE2NC74	2-Port 100GBase-CFP2 Integrated Line Processing Unit B(LPUI-240-B)	-	●	●	-	●	●
03057486	CR5DooE2ND71	2-Port 100GBase-QSFP28 Integrated Line Processing Unit B(LPUI-240-B)	-	●	●	-	●	●
03057450	CR5DE1NLBX71	1-Port 100GBase-CFP2 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B)	-	●	●	-	●	●
03057487	CR5DE1NLBX73	1-Port 100GBase-QSFP28 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B)	-	●	●	-	●	●

**Table 2.** 240G Integrated Line Processing Units Compatible Optical/Electrical Modules

BOM	Order Name	Board Name	Optical type supported
03054691	CR5DooE2NC70	2-Port 100GBase-CFP Integrated Line Processing Unit (LPUI-240)	100Gbps CFP optical module

BOM	Order Name	Board Name	Optical type supported
03054692	CR5DooLFX F70	24-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240)	<p>1Gbps electrical module</p> <p>1.25Gbps eSFP optical module</p> <p>1.25Gbps eSFP CWDM optical module</p> <p>1.25Gbps eSFP BIDI optical module</p> <p>125M~2.67Gbps eSFP DWDM optical module</p> <p>10Gbps SFP+ optical module</p> <p>10Gbps SFP+ CWDM optical module</p> <p>10Gbps SFP+ BIDI optical module</p> <p>10Gbps SFP+ DWDM optical module</p> <p>1.25/9.953/10.3125Gbps SFP+ optical module</p>
03054693	CR5DE2NL BX70	1-Port 100GBase-CFP + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240)	<p>1Gbps electrical module</p> <p>1.25Gbps eSFP optical module</p> <p>1.25Gbps eSFP CWDM optical module</p> <p>1.25Gbps eSFP BIDI optical module</p> <p>125M~2.67Gbps eSFP DWDM optical module</p> <p>10Gbps SFP+ optical module</p> <p>10Gbps SFP+ CWDM optical module</p> <p>10Gbps SFP+ BIDI optical module</p> <p>10Gbps SFP+ DWDM optical module</p> <p>1.25/9.953/10.3125Gbps SFP+ optical module</p> <p>100Gbps CFP optical module</p>
03056105	CR5DoE6M FA70	6-Port 40GBase-QSFP+ Integrated Line Processing Unit (LPUI-240)	<p>40Gbps QSFP+optical module</p> <p>NOTE</p> <p>Modules with the BOM number 02311NUA are not supported.</p> <p>When optical modules with the BOM number 02310WUU are used, 4x10G breakout optical fibers are not supported.</p>
03056106	CR5DoE6M FA71	6-Port 40GBase-QSFP+ Integrated Line Processing Unit (LPUI-240-B)	<p>40Gbps QSFP+optical module</p> <p>NOTE</p> <p>Modules with the BOM number 02311NUA are not supported.</p> <p>When optical modules with the BOM number 02310WUU are used, 4x10G breakout optical fibers are not supported.</p>

BOM	Order Name	Board Name	Optical type supported
03057447	CR5DooE2 NC71	2-Port 100GBase-CFP2 Integrated Line Processing Unit (LPUI-240)	100Gbps CFP2 optical module  NOTE When optical modules with the BOM number 02311LYG are used, 2x40G and 10x10G breakout optical fibers are not supported.
03057448	CR5DE1NL BX70	1-Port 100GBase-CFP2 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240)	1Gbps electrical module 1.25Gbps eSFP optical module 1.25Gbps eSFP CWDM optical module 1.25Gbps eSFP BIDI optical module 125M~2.67Gbps eSFP DWDM optical module 10Gbps SFP+ optical module 10Gbps SFP+ CWDM optical module 10Gbps SFP+ BIDI optical module 10Gbps SFP+ DWDM optical module 1.25/9.953/10.3125Gbps SFP+ optical module 100Gbps CFP2 optical module  NOTE When optical modules with the BOM number 02311LYG are used, 2x40G and 10x10G breakout optical fibers are not supported.
03054694	CR5DooE2 NC73	2-Port 100GBase LAN-CFP Integrated Line Processing Unit B(LPUI-240-B)	100Gbps CFP optical module
03054695	CR5DooLFX F73	24-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B)	1Gbps electrical module 1.25Gbps eSFP optical module 1.25Gbps eSFP CWDM optical module 1.25Gbps eSFP BIDI optical module 125M~2.67Gbps eSFP DWDM optical module 10Gbps SFP+ optical module 10Gbps SFP+ CWDM optical module 10Gbps SFP+ BIDI optical module 10Gbps SFP+ DWDM optical module 1.25/9.953/10.3125Gbps SFP+ optical module

BOM	Order Name	Board Name	Optical type supported
03054696	CR5DE2NL BX73	1-Port 100GBase-CFP + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B)	<p>1Gbps electrical module</p> <p>1.25Gbps eSFP optical module</p> <p>1.25Gbps eSFP CWDM optical module</p> <p>1.25Gbps eSFP BIDI optical module</p> <p>125M~2.67Gbps eSFP DWDM optical module</p> <p>10Gbps SFP+ optical module</p> <p>10Gbps SFP+ CWDM optical module</p> <p>10Gbps SFP+ BIDI optical module</p> <p>10Gbps SFP+ DWDM optical module</p> <p>1.25/9.953/10.3125Gbps SFP+ optical module</p> <p>100Gbps CFP optical module</p>
03057449	CR5D00E2 NC74	2-Port 100GBase-CFP2 Integrated Line Processing Unit B(LPUI-240-B)	<p>100Gbps CFP2 optical module</p> <p>NOTE</p> <p>When optical modules with the BOM number 02311LYG are used, 2x40G and 10x10G breakout optical fibers are not supported.</p>
03057450	CR5DE1NL BX71	1-Port 100GBase-CFP2 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B)	<p>10Gbps SFP+ optical module</p> <p>10Gbps SFP+ CWDM optical module</p> <p>10Gbps SFP+ BIDI optical module</p> <p>10Gbps SFP+ DWDM optical module</p> <p>1.25/9.953/10.3125Gbps SFP+ optical module</p> <p>100Gbps CFP2 optical module</p> <p>NOTE</p> <p>When optical modules with the BOM number 02311LYG are used, 2x40G and 10x10G breakout optical fibers are not supported.</p>
03057484	CR5D00E2 ND70	2-Port 100GBase-QSFP28 Integrated Line Processing Unit (LPUI-240)	<p>100Gbps QSFP28 optical module</p> <p>40Gbps QSFP+ optical module</p>

BOM	Order Name	Board Name	Optical type supported
03057485	CR5DE1NL BX72	1-Port 100GBase-QSFP28 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240)	100Gbps QSFP28 optical module 40Gbps QSFP+ optical module 1Gbps electrical module 1.25Gbps eSFP optical module 1.25Gbps eSFP CWDM optical module 1.25Gbps eSFP BIDI optical module 125M~2.67Gbps eSFP DWDM optical module 10Gbps SFP+ optical module 10Gbps SFP+ CWDM optical module 10Gbps SFP+ BIDI optical module 10Gbps SFP+ DWDM optical module 1.25/9.953/10.3125Gbps SFP+ optical module
03057486	CR5D00E2 ND71	2-Port 100GBase-QSFP28 Integrated Line Processing Unit B(LPUI-240-B)	100Gbps QSFP28 optical module 40Gbps QSFP+ optical module
03057487	CR5DE1NL BX73	1-Port 100GBase-QSFP28 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B)	100Gbps QSFP28 optical module 40Gbps QSFP+ optical module 10Gbps SFP+ optical module 10Gbps SFP+ CWDM optical module 10Gbps SFP+ BIDI optical module 10Gbps SFP+ DWDM optical module

## Product Specifications

**错误!未找到引用源。** to 18 list the specifications of the LPUI-240 Series integrated line processing units.

**Table 3.** 2-Port 100GBase-CFP Integrated Line Processing Unit (LPUI-240) Specifications

Item	Specification
Order Name	CR5D00E2NC70
Silkscreen	LPUI-240 2x100GBase LAN-CFP-A
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	11.1 kg (24.48 lb)
Typical power consumption	345.0 W



Item	Specification
Typical heat dissipation	1119.3 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	CFP
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 4.** 2-Port 100GBase-CFP2 Integrated Line Processing Unit (LPUI-240) Specifications

Item	Specification
Order Name	CR5D00E2NC71
Silkscreen	LPUI-240 2x100GBase LAN-CFP2-A
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	10.1 kg (22.27 lb)
Typical power consumption	324.0 W
Typical heat dissipation	1051.3 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	CFP2
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 5.** 2-Port 100GBase-QSFP28 Integrated Line Processing Unit (LPUI-240) Specifications

Item	Specification
Order Name	CR5D00E2ND70
Silkscreen	LPUI-240 2x10GBase-QSFP28
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	10 kg (22.05 lb)

Item	Specification
Typical power consumption	312.0 W
Typical heat dissipation	1012.3 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	QSFP28/QSFP+
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 6.** 24-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240) Specifications

Item	Specification
Order Name	CR5DooLFXF70
Silkscreen	LPUI-240 24x10GBase LAN/WAN-SFP+ -A
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	10 kg (22.05 lb)
Typical power consumption	347.0 W
Typical heat dissipation	1125.7 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/SFP+
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 7.** 1-Port 100GBase-CFP + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240) Specifications

Item	Specification
Order Name	CR5DE2NLBX70
Silkscreen	LPUI-240 1x100GBase LAN-CFP -12x10GBase LAN/WAN-SFP+

Item	Specification
	-A
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	10.6 kg (23.26 lb)
Typical power consumption	346.0 W
Typical heat dissipation	1122.5 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/SFP+,CFP
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 8.** 1-Port 100GBase-CFP2 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240) Specifications

Item	Specification
Order Name	CR5DE1NLBX70
Silkscreen	LPUI-240 1x100GBase-CFP2-12x10GBase LAN/WAN-SFP+ -A
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	10 kg (22.16 lb)
Typical power consumption	336.0 W
Typical heat dissipation	1090.2 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+,CFP2
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 9.** 1-Port 100GBase-QSFP28 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit (LPUI-240) Specifications

Item	Specification
Order Name	CR5DE1NLBX72
Silkscreen	LPUI-240 1x100G-QSFP28-12x10G LAN/WAN-SFP+
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	10 kg (22.05 lb)
Typical power consumption	330.0 W
Typical heat dissipation	1070.7 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	QSFP28/QSFP+,SFP/SFP+
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 10.** 6-Port 40GBase-QSFP+ Integrated Line Processing Unit (LPUI-240) Specifications

Item	Specification
Order Name	CR5DoE6MFA70
Silkscreen	LPUI-240 6x40GBase-QSFP+ -A
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	10.2 kg (22.49 lb)
Typical power consumption	344.0 W
Typical heat dissipation	1116.1 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	QSFP+
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 11.** 2-Port 100GBase LAN-CFP Integrated Line Processing Unit B(LPUI-240-B) Specifications

Item	Specification
Order Name	CR5D00E2NC73
Silkscreen	LPUI-240-B 2x100GBase LAN-CFP-A
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	11.1 kg (24.48 lb)
Typical power consumption	345.0 W
Typical heat dissipation	1119.3 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	CFP
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 12.** 2-Port 100GBase-CFP2 Integrated Line Processing Unit B(LPUI-240-B) Specifications

Item	Specification
Order Name	CR5D00E2NC74
Silkscreen	LPUI-240-B 2x100GBase LAN-CFP2-A
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	10.1 kg (22.27 lb)
Typical power consumption	324.0 W
Typical heat dissipation	1051.3 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	CFP2
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 13.** 2-Port 100GBase-QSFP28 Integrated Line Processing Unit B(LPUI-240-B) Specifications

Item	Specification
Order Name	CR5D00E2ND71
Silkscreen	LPUI-240-B 2x10GBase-QSFP28
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	10 kg (22.05 lb)
Typical power consumption	312.0 W
Typical heat dissipation	1012.3 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	QSFP28/QSFP+
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 14.** 24-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B) Specifications

Item	Specification
Order Name	CR5D00LFXF73
Silkscreen	LPUI-240-B 24x10GBase LAN/WAN-SFP+ -A
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	10 kg (22.05 lb)
Typical power consumption	347.0 W
Typical heat dissipation	1125.7 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/SFP+
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 15.** 1-Port 100GBase-CFP + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B) Specifications

Item	Specification
Order Name	CR5DE2NLBX73
Silkscreen	LPUI-240-B 1x100GBase LAN-CFP -12x10GBase LAN/WAN-SFP+ -A
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	10.6 kg (23.26 lb)
Typical power consumption	346.0 W
Typical heat dissipation	1122.5 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/SFP+,CFP
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 16.** 1-Port 100GBase-CFP2 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B) Specifications

Item	Specification
Order Name	CR5DE1NLBX71
Silkscreen	LPUI-240-B 1x100GBase-CFP2-12x10GBase LAN/WAN-SFP+ -A
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	10 kg (22.16 lb)
Typical power consumption	359.0 W
Typical heat dissipation	1442.4 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+,CFP2
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 17.** 1-Port 100GBase-QSFP28 + 12-Port 10GBase LAN/WAN-SFP+ Integrated Line Processing Unit B(LPUI-240-B) Specifications

Item	Specification
Order Name	CR5DE1NLBX73
Silkscreen	LPUI-240-B 1x100G-QSFP28-12x10G LAN/WAN-SFP+
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	10 kg (22.05 lb)
Typical power consumption	330.0 W
Typical heat dissipation	1070.7 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	QSFP28/QSFP+,SFP+
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP
Reliability and availability	Hot swappable.

**Table 18.** 6-Port 40GBase-QSFP+ Integrated Line Processing Unit (LPUI-240-B) Specifications

Item	Specification
Order Name	CR5DoE6MFA71
Silkscreen	LPUI-240-B 6x40GBase-QSFP+ -A
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	10.2 kg (22.49 lb)
Typical power consumption	344.0 W
Typical heat dissipation	1116.1 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	QSFP+
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP and Ethernet_SNAP



Item	Specification
Reliability and availability	Hot swappable.

## Product Performance

**Table 19.** Performance of the LPUI-240/LPUI-240-B

Feature	Specification
FIB	IPv4: up to 4,096,000 routes IPv6: up to 2,048,000 routes Mixed: up to 2,048,000 IPv4 routes and 1,024,000 IPv6 routes
Multicast	IPv4: up to 64,000 routes IPv6: up to 8,000 routes
QoS	Up to 256,000 queues in total Up to 5 levels of hierarchy Up to 100ms packet buffer time
Access Control List (ACL) rules	ACLv4: up to 256 * 1,024/slot(Only unidirectional transmission is supported.) ACLv6: up to 32 * 1,024/slot
IPoE/PPPoE subscribers	Up to 64,000 subscribers/slot
L2TP sessions	64,000/slot
L2TP tunnels	16,000/slot

## For More Information

For more information about the Huawei NE40E 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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