

## Product Overview

Huawei NE9000's 1T Integrated Line Process Unit (LPUI-1T for short) is used to process traffic on all data planes of Huawei NE9000 series universal service routers.

60-Port 10GBase LAN/WAN-SFP+ MACSec Integrated Line Process Unit CM(LPUI-1T-CM)



## Product Characteristics

The LPUI-1T series provides various service support capabilities. IP, MPLS, Segment Routing, SRv6, Ethernet, L2VPN, L3VPN and EVPN services can be deployed simultaneously. The boards support IEEE 1588v2 and G.8275.1 sub-microseconds time synchronization precision with hardware-assisted processing. Therefore, time synchronization between devices equipped with such boards is highly accurate. The boards can be used for services and applications (for example, IP RAN or private line) that require clock synchronization. The boards support IPv6/SRv6 and smooth transition from IPv4 to IPv6. With the flexible and fully programmable architecture, the boards implement new services through microcode programming. Customers do not need to replace existing hardware with new hardware, which reduces device investment costs. In addition, the service innovation period is greatly shortened to help customers quickly launch new services and build flexible and scalable networks.

- A 60-port 10GE integrated line processing board is designed to provide high-density ports. The board supports a maximum of 60 SFP+ 10GE ports. The ports can be compatible to GE ports to support large-scale 1000M bandwidth access.

These large-capacity integrated line processing boards help eliminate the network bandwidth bottleneck stemming from new-generation high-speed and high-demand computing applications and technologies (such as server virtualization and cloud computing, data center fiber integration, and end users' requirements for higher performance computing). The boards provide economical, scalable, high-reliability, and line-speed Ethernet and IP/MPLS services.

In addition, it has the following advantages: It is reliable and secure and supports the dynamic adjustment of the number of processing cores, frequency, and bus bandwidth of the forwarding chip based on service traffic changes, which dynamically adjusts board power consumption. Combined with dynamic frequency modulation and intelligent fan rotation speed adjustment, the chip implements dynamic energy conservation and helps greatly reduce device power consumption.

# Product Compatibility

## LPUI-1T Series Compatible Chassis

LPUI-1T Series Compatible Chassis ("●" indicates supported items, "-" indicates unsupported items).

BOM	Order Name	Description	-8	-20
03058834	CR9D00 EPXF81	60-Port 10GBase LAN/WAN-SFP+ MACSec Integrated Line Process Unit CM(LPUI-1T-CM)	●	●

## LPUI-1T Series Compatible Optical/Electrical Modules

LPUI-1T Series Compatible Optical/Electrical Modules

BOM Number	Order Name	Board Name	Optical type supported
03058834	CR9D00EPXF8 1	60-Port 10GBase LAN/WAN-SFP+ MACSec Integrated Line Process Unit CM(LPUI-1T-CM)	1Gbps Electrical Module 1.25Gbps eSFP Optical Module 1.25Gbps eSFP BIDI Optical Module 10Gbps SFP+ Optical Module 10Gbps SFP+ CWDM Optical Module 10Gbps SFP+ BIDI Optical Module 10Gbps SFP+ DWDM Optical Module

# Product Specifications

## 60-Port 10GBase LAN/WAN-SFP+ MACSec Integrated Line Process Unit CM(LPUI-1T-CM) Specifications

60-Port 10GBase LAN/WAN-SFP+ MACSec Integrated Line Process Unit CM(LPUI-1T-CM) Specifications

Item	Description
Order Name	CR9D00EPXF81
Silkscreen	60x10GBase LAN/WAN-SFP+-C NE9000 LPUI-1T-CM
Dimensions (H x W x D)	45.2 mm x 521.9 mm x 533.4 mm (1.78 in. x 20.55 in. x 21.0 in.)
Weight	11.7 kg (25.74 lb)
Typical power consumption	522.0 W
Typical heat dissipation	1693.6 BTU/hour
Ambient temperature	Long terms: 0 °C to 40 °C (32°F to 104°F) ; Short terms: -5 °C to 50 °C (23°F to 122°F)
Connector type	SFP+/SFP
Working mode	Full-duplex
Frame format	Ethernet_II, Ethernet_SAP, and Ethernet_SNAP

Item	Description
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](mailto:support_e@huawei.com)

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