

# NE08E&NE05E Series Mid-range Service Routers



## Product Overview

Huawei ® NetEngine 08E / NetEngine 05E (NE08E&NE05E in short) Series router is the cloud era ENP Based Mid Services Router, which is to help transportation, finance, power, government, education, enterprise to build agile networks, can be flexibly applied to IP / MPLS network edge access scenarios, to meet the diverse needs of users for future business development.

The NE08E&NE05E Series Routers have the following features:

- Small size, big bandwidth; support for -40°C to 65°C working temperature range, suitable for difficult environments (detail information refer to Product Specifications table ).
- Cloud service architecture design oriented, large cache to ensure the best service experience; IP pipeline firmness and flexibility, support IP soft pipes for statistical multiplexing to improve resource efficiency and IP hard pipe exclusive resources to ensure the best customer experience. Large buffers, fast error detection and recovery, and use of IP hard pipes technology ensure smooth service experience
- Innovative ATOM GPS time synchronization solution and built-in PCM card simplify deployment and maintenance
- Visual interfaces enable one-click service provisioning, real-time service quality and performance monitoring, and custom service reports
- SDN architecture, VRP software, and Huawei's proprietary ENP chips provide agile networking for quickly adapting to new services and user requirements

As shown in Figure 1, the NE08E&NE05E Series routers contain NE08E-S6E, NE05E-SQ, NE08E-S6, NE05E-S2, NE05E-SE, NE05E-SF, NE05E-SG, NE05E-SH, NE05E-SI, NE05E-SN, NE05E-SJ, NE05E-SK, NE05E-SL and NE05E-SM.

Figure 1 Huawei NE08E&NE05E Series Routers



NE08E-S6E



NE05E-SQ



NE08E-S6



NE05E-S2



NE05E-SE



NE05E-SF



NE05E-SG



NE05E-SH



NE05E-SI



NE05E-SN



NE05E-SJ



NE05E-SK



NE05E-SL



NE05E-SM

## Product Features

Table 1 lists the features of the Huawei NE08E&NE05E Series Routers.

Table 1. Features of Huawei NE08E&NE05E Series Routers

Features	Description
<b>Powerful Service Support</b>	
Comprehensive access and aggregation capabilities	The NE08E&NE05E series routers support various interface types (E1, POS, CPOS, GE, 10GE, etc.) and high-density fixed ports to provide access and aggregation WAN services.
Comprehensive clock synchronization solution	The NE08E&NE05E series routers support 1588v2, 1588ACR, E1 line clock, Synchronous Ethernet.
Covering the whole scene	The NE08E&NE05E series routers support various last-mile scenarios and one-stop coverage for various services.
HQoS support	The NE08E&NE05E series routers support precise scheduling based on traffic, services, and interfaces.
<b>High Availability</b>	
Equipment-level reliability	The NE08E series routers provide redundancy backup for key components. These key components support hot swap and hot backup. The NE08E series also use technologies, such as Non-Stop Routing (NSR), Non-Stop Forwarding (NSF), and In-Service Software Upgrade (ISSU), to ensure uninterrupted service forwarding.

Features	Description
Network-level reliability	The NE08E&NE05E series routers use the following technologies to provide network-level reliability: IP fast reroute (FRR), Label Distribution Protocol (LDP) FRR, VPN FRR, TE FRR, hot standby, fast convergence of Interior Gateway Protocols (IGP), BGP, and multicast routes, Virtual Router Redundancy Protocol (VRRP), trunk load balancing and backup, hardware-based Bidirectional Forwarding Detection (BFD) of 3.3 ms, MPLS OAM, and Ethernet OAM. The NE08E&NE05E series routers provide an end-to-end protection switching speed of 200 ms with no service interruption.
Service-level reliability	The NE08E&NE05E series routers use the following technologies to provide service-level reliability for L2VPNs and L3VPNs: VPN FRR, E-VRRP, VLL FRR, Ethernet OAM, and PW redundancy. These technologies ensure stable and reliable service operation with no service interruption.
Overall reliability	The NE08E&NE05E series routers support hardware-based OAM packet forwarding, with packets being sent at an interval of 3.3 ms, to ensure rapid traffic switching within 50 ms. Bit-error-triggered protection switching with accuracy up to $10^{-6}$ is supported.
<b>Flexible and Scalable, Investment Protection</b>	
IP pipeline firmness and flexibility	The NE08E&NE05E series routers support IP soft pipes for statistical multiplexing to improve resource efficiency and IP hard pipes for resources exclusive.
Self-developed chips, service demand and dynamic	The NE08E&NE05E series routers use self-developed ENP chip, with its flexible and programmable architecture, enabling customers to build flexible and scalable networks.
Future-oriented	The NE08E&NE05E series routers use universal boards to support future network-oriented SDN architecture and smooth SDN evolution.
<b>Powerful Operation and Maintenance Ability</b>	
Hardware-based OAM	The NE08E&NE05E series routers support hardware-based OAM packet forwarding, with packets being sent at an interval of 3.3 ms, ensuring rapid traffic switching within 50 ms.
Remote virtualization	The NE08E/NE05E can be virtualized as the remote boards at the aggregation layer for centralized management. This simplifies the network and improves operation and maintenance.
All in one PCM	Built-in PCM technology enables direct access to a variety of low-speed services, simplifying network and unifying operation and maintenance.
Service SLA	The NE08E&NE05E series routers support IP FPM, which can perform high-precision network throughput and delay measurement between multiple devices with accuracy of $10^{-6}$ . Y.1731, Y.1564, and RFC 2544 are also supported to provide instrument-free network performance self-test capability.
Simple operation and maintenance	The NE08E&NE05E series routers support plug and play and batch delivery of user configurations and one-click service deployment and troubleshooting.
<b>Less Investment</b>	
Leading industrial design, green concept	Low power, green energy, low carbon and environmental protection.
Reducing installation space	The NE08E&NE05E Series Routers are only 180mm or 220 mm or 310mm deep and the lowest one is only 1 U height, reducing the required installation space.

Features	Description
Wide temperature range design	The NE08E&NE05E can be used when the ambient temperature is between $-40^{\circ}\text{C}$ and $+65^{\circ}\text{C}$ <sup>Note1</sup> , applicable to outdoor deployment.

 **NOTE**

Note1: Some devices not support  $-40^{\circ}\text{C}$  and  $+65^{\circ}\text{C}$ , more information refer to the product specifications table.

## Usage Scenarios

NE08E&NE05E device is generally located at the intersection between an enterprise's internal network and an external network. An NE08E&NE05E device is the only entrance and exit of data flows between the internal and external networks. An NE08E&NE05E device can bear multiple types of services, greatly reducing network construction investment and long-term operation and maintenance costs of an enterprise network.

Table 2. Typical Usage Scenarios of Huawei NE08E&NE05E Series Routers

Usage Scenarios	Product Features
Enterprise/Campus egress	The NE08E&NE05E series can be used as egresses on large networks and provide powerful route forwarding capabilities.
Power Grid	The NE08E&NE05E series are part of Huawei's ALL IP solution, support any access of Power Grid. Device integrate the PCM card will reduce the cost and save the investment. The NE08E & NE05E series routers provide IP hard pipe technology to bear power relay protection and ensure security and reliability of key services.
Transportation industry network	The NE08E&NE05E series routers apply to railway GSM-R/LTE bearing for access of wireless signal network backhaul. The NE08E&NE05E series routers provide EN50121-4-compliant industry design and reliability and can be commonly used in the transportation industry <sup>Note1</sup> .
Urban metro	The NE08E&NE05E series routers apply to urban metro, and ATOM GPS + 1588V2 can be used for LTE-M clock backhaul to resolve the underground clock backhaul problem.
Highway networks	The NE08E&NE05E series routers apply to highway bearer networks, support IP65 outdoor protection, and provide POE + power supply capability.
Small ISP	The NE08E&NE05E series routers apply to traditional wireless backhaul scenarios and provide leased lines and powerful forwarding capabilities for customers.
Urban safety	The NE08E&NE05E series routers apply to city-wide surveillance camera systems support IP65 outdoor protection and provide POE + power supply capability <sup>Note1</sup> .

 **NOTE**

Note1: Some devices support EN50121-4, more information refer to the product specifications table.

Note2 : Only NE05E-SL/NE05E-SM support IP65 and NE05E-SM support POE.

## Product Specifications

Table 3 lists the specifications of Huawei NE08E&NE05E Series Routers. Supported by NE05E&08E V300R003C00 or later Version.

Table 3. Specifications of NE08E-S6E / NE08E-S6 / NE05E-S2

Item	NE08E-S6E	NE08E-S6 (Basic System)	NE08E-S6 (Clock-Enhanced System)	NE05E-S2
Switching capacity (IPv4/IPv6)	320 Gbps (160 Gbps upstream, 160 Gbps downstream)	88 Gbps (44 Gbps upstream, 44 Gbps downstream)	112 Gbps (56 Gbps upstream, 56 Gbps downstream)	24 Gbps (12 Gbps upstream, 12 Gbps downstream)
Forwarding performance (IMIX)	102 Mpps	37.162 Mpps	47.297 Mpps	17.875 Mpps
MTBF (year)	40	40	40	40
MTTR (hour)	2	2	2	2
System reliability	0.99999	0.99999	0.99999	0.99999
Clock synchronization	1588v2, 1588 ACR, E1 line clock, Ethernet synchronization	1588v2, E1 line clock, Ethernet synchronization	1588v2, 1588 ACR, E1 line clock, Ethernet synchronization	1588v2, 1588 ACR, E1/T1 line clock, Ethernet synchronization
Total swappable slots	11	11	11	6
Swappable slots for interface board	6	6	6	2
Control board support	2 control boards, backup for each other	2 control boards, backup for each other	2 control boards, backup for each other	1 control board
Power support	2 power boards, backup for each other	2 power boards, backup for each other	2 power boards, backup for each other	1 power board, 2 DC power-input
Fan support	1 fan board, 6 fans inside	1 fan board, 6 fans inside	1 fan board, 6 fans inside	1 fan board, 3 fans inside
Fixed interfaces for service	None	None	None	None
Cabinet installation standard	IEC60297, ETSI300-119, IEC60297 (23-inch)	IEC60297, ETSI300-119, IEC60297 (23-inch)	IEC60297, ETSI300-119, IEC60297 (23-inch)	IEC60297, ETSI300-119, IEC60297 (23-inch)
Airflow	Left to right	Left to right	Left to right	Left to right
SDRAM	4096 MByte	1 GByte	1 GByte	1 GByte
Flash	64 Mbyte	128 MByte	128 MByte	128 MByte
CF card	2048 Mbyte (virtual CF card and cannot be replaced) (Note1)	512 Mbyte (virtual CF card and cannot be replaced)	512 Mbyte (virtual CF card and cannot be replaced)	512 Mbyte (replacable)

Item	NE08E-S6E	NE08E-S6 (Basic System)	NE08E-S6 (Clock-Enhanced System)	NE05E-S2
Power consumption (Typical power consumption)	164 W	127 W	127 W	55 W
Heat dissipation	558.040 BTU/hour	587.240 BTU/hour	587.240 BTU/hour	220.620 BTU/hour
Built-in power	Dual-DC	Dual-DC or Dual-AC	Dual-DC or Dual-AC	Dual-DC
Power input	DC:-38.4 to -72.0 V (-48V/-60V rated)	DC:-38.4 to -72.0 V (-48V/-60V rated) AC: 100 to 240V (110V/220V rated)	DC:-38.4 to -72.0 V (-48V/-60V rated) AC: 100 to 240V (110V/220V rated)	DC:-38.4 to -72.0 V (-48V/-60V rated)
External AC power	Supported	Supported	Supported	Supported
External AC power adapter	Not supported	Not supported	Not supported	Supported
Physical dimensions (Note 2)	Height: 88.9 mm (3.50 in.) (2U) Width: 442 mm (17.40 in.) Depth: 220 mm (8.66 in.)	Height: 88.9 mm (2U) Width: 442 mm (17.40 in.) Depth: 220 mm (8.66 in.)	Height: 88.9 mm (2U) Width: 442 mm (17.40 in.) Depth: 220 mm (8.66 in.)	Height: 44.45 mm (1.75 in.) (1U) Width: 442 mm (17.40 in.) Depth: 220 mm (8.66 in.)
Weight (in empty configuration)	3.50 kg (7.71 lb)	2.80 kg (6.17 lb)	2.80 kg (6.17 lb)	2.36 kg (5.20 lb)
Weight (in full configuration)	10.10 kg (22.26 lb)	8.42 kg (18.56 lb)	8.42 kg (18.56 lb)	4.8 kg (10.58 lb)
	Temperature	-40 to +65°C (-40 to 149°F)	-40 to +65°C (-40 to 149°F)	-40 to +65°C (-40 to 149°F)
	Humidity	5% to 95% RH	5% to 95% RH	5% to 95% RH
	Altitude	$\leq$ 4000 m (13123.4 feet). If the altitude is between 1800 meters (5905.44 feet) and 4000 meters, the operating temperature of the device must decrease by 1 °C (1.8 °F) for every 220 meters (721.78 feet) increase in altitude.		
	Temperature	-40 to 70°C (-40 to 158 °F)	-40 to 70°C (-40 to 158 °F)	-40 to 70°C (-40 to 158 °F)
	Humidity	5% to 100%	5% to 100%	5% to 100%
	Altitude	$\leq$ 5000 m	$\leq$ 5000 m	$\leq$ 5000 m
Regulatory compliance	<b>EMC</b> <ul style="list-style-type: none"><li>• CISPR22 Class A</li><li>• EN 55022 Class A</li><li>• AS/NZS CISPR22 Class A</li><li>• FCC Part 15 Subpart B Class A</li></ul>	<b>EMC</b> <ul style="list-style-type: none"><li>• CISPR22 Class A</li><li>• EN 55022 Class A</li><li>• AS/NZS CISPR22 Class A</li><li>• FCC Part 15 Subpart B Class A</li></ul>	<b>EMC</b> <ul style="list-style-type: none"><li>• CISPR22 Class A</li><li>• CISPR24</li><li>• EN 55022 Class A</li><li>• EN 50024</li></ul>	

Item	NE08E-S6E	NE08E-S6 (Basic System)	NE08E-S6 (Clock-Enhanced System)	NE05E-S2
	<ul style="list-style-type: none"> <li>• FCC Part 15 Subpart B Class A</li> <li>• ICES 003 Class A</li> <li>• VCCI V-3 Class A</li> <li>• VCCI V-4</li> <li>• IEC 61000-4-2</li> <li>• EN 61000-4-2</li> <li>• IEC 61000-4-3</li> <li>• EN 61000-4-3</li> <li>• IEC 61000-4-4</li> <li>• EN61000-4-4</li> <li>• IEC 61000-4-5</li> <li>• EN 61000-4-5</li> <li>• IEC 61000-4-6</li> <li>• EN 61000-4-6</li> <li>• IEC 61000-4-29</li> <li>• EN 61000-4-29</li> <li>• IEC 61000-6-4 Class A</li> <li>• EN 61000-6-4 Class A</li> <li>• CISPR24</li> <li>• EN 55024</li> <li>• ETSI EN 300 386</li> <li>• EN 61000-6-2</li> <li>• IEC 61000-6-2</li> <li>• EN 50121-4</li> <li>• EN 50155</li> <li>• EN 50121-3-2</li> <li>• IEEE 1613</li> <li>• IEC 61850-3</li> <li>• IEC/TS 61000-6-5</li> </ul> <p><b>Safety</b></p> <ul style="list-style-type: none"> <li>• IEC 60950-1</li> <li>• EN 60950-1</li> <li>• UL 60950-1</li> <li>• CSA C22.2 No 60950-1</li> <li>• AS/NZS 60950.1</li> <li>• IEC 60825-1</li> <li>• IEC 60825-2</li> <li>• EN 60825-1</li> <li>• EN 60825-2</li> <li>• FDA rules, 21 CFR 1040.10 and 1040.11</li> </ul> <p><b>Grounding</b></p> <ul style="list-style-type: none"> <li>• ITU-T K.27</li> <li>• ETSI EN 300 253</li> </ul> <p><b>Environmental protection</b></p>	<ul style="list-style-type: none"> <li>• ICES 003 Class A</li> <li>• VCCI V-3 Class A</li> <li>• IEC 61000-6-4 Class A</li> <li>• EN 61000-6-4 Class A</li> <li>• IEC 61000-3-2</li> <li>• EN 61000-3-2</li> <li>• GB 17625.1</li> <li>• IEC 61000-3-3</li> <li>• EN 61000-3-3</li> <li>• GB 17625.2</li> <li>• CISPR24</li> <li>• EN 55024</li> <li>• ETSI EN 300 386</li> <li>• ETSI ES 201 468</li> <li>• EN 61000-6-2</li> <li>• IEC 61000-6-2</li> <li>• IEC61850-3</li> <li>• IEEE1613</li> </ul> <p><b>Safety</b></p> <ul style="list-style-type: none"> <li>• IEC 60950-1</li> <li>• IEC/EN 41003</li> <li>• EN 60950-1</li> <li>• UL 60950-1</li> <li>• CSA C22.2 No 60950-1</li> <li>• AS/NZS 60950.1</li> <li>• BS EN 60950-1</li> <li>• IS 13252</li> <li>• GB 4943</li> <li>• FDA rules, 21 CFR 1040.10 and 1040.11</li> <li>• IEC60825-1, IEC60825-2, EN60825-1, EN60825-2</li> <li>• GB 7247</li> </ul> <p><b>Grounding</b></p> <ul style="list-style-type: none"> <li>• ITU-T K.27</li> <li>• ETSI EN 300 253</li> </ul> <p><b>Environmental protection</b></p>	<ul style="list-style-type: none"> <li>• ETSI EN 300 386 Class A</li> <li>• ETSI ES 201 468</li> <li>• CFR 47 FCC Part 15 Class A</li> <li>• ICES 003 Class A</li> <li>• AS/NZS CISPR22 Class A</li> <li>• GB 9254 Class A</li> <li>• VCCI Class A</li> <li>• CNS 13438 Class A</li> <li>• IEC 61000-3-2/3</li> <li>• EN 61000-3-2/3</li> <li>• IEC61850-3</li> <li>• EN50121-3-2/4</li> <li>• IEEE1613</li> </ul>	

Item	NE08E-S6E	NE08E-S6 (Basic System)	NE08E-S6 (Clock-Enhanced System)	NE05E-S2
	<ul style="list-style-type: none"> <li>• AS/NZS 60950.1</li> <li>• IEC 60825-1</li> <li>• IEC 60825-2</li> <li>• EN 60825-1</li> <li>• EN 60825-2</li> <li>• 21 CFR 1040.10 and Laser Notice 50</li> </ul> <p><b>Grounding</b></p> <ul style="list-style-type: none"> <li>• ITU-T K.27</li> <li>• ETSI EN 300 253</li> </ul> <p><b>Environmental protection</b></p> <ul style="list-style-type: none"> <li>• RoHS</li> <li>• REACH</li> <li>• WEEE</li> </ul>	<ul style="list-style-type: none"> <li>• RoHS</li> <li>• REACH</li> <li>• WEEE</li> </ul>		<p><b>Environmental protection</b></p> <ul style="list-style-type: none"> <li>• RoHS</li> <li>• REACH</li> <li>• WEEE</li> </ul>

 **NOTE**

Note1: There are two CF cards are equipped on an NE08E-S6E device. One is the active CF card, and the other is standby CF card, each of which has a capacity of 1024 MB. The slave CF card can only back up the system software, patch, PAF, and configuration files. When the startup system-software, startup patch, startup patch or start save-configuration command is run to specify a file to be loaded at a next startup, the file path cannot be set to the slave CF card.

Note 2: In the physical dimensions shown in the table, the width (W) does not include the rack-mounting ears.

Note 3: Temperature and humidity are measured at 1.5 m (4.92 feet.) above the floor and 0.4 m (1.31 feet.) in front of the cabinet. There should be no protection board on the front or back of the cabinet.

Table 4. Specifications of NE05E-SQ / NE05E-SE / NE05E-SF

Item	NE05E-SQ	NE05E-SE	NE05E-SF
Switching capacity (IPv4/IPv6)	272G bps (136G bps upstream, 136G bps downstream)	88G bps (44G bps upstream, 44G bps downstream)	72G bps (36G bps upstream, 36G bps downstream)
Forwarding performance (IMIX)	102 Mpps	37.2 Mpps	30.4 Mpps
MTBF (year)	40	40	40
MTTR (hour)	2	2	2
System reliability	0.99999	0.99999	0.99999

Item	NE05E-SQ	NE05E-SE	NE05E-SF
Clock synchronization	1588v2, 1588 ACR, and Ethernet synchronization	1588v2 and Ethernet synchronization	1588v2, 1588 ACR, E1 line clock, Ethernet synchronization
Number of swappable slots	2 Power board slots	No swappable slot	No swappable slot
Service interface	4*10GE(o), 8*10GE/GE/FE(o), 8*GE/FE(o), 8*GE/FE(e)	2*10GE(XFP), 16*GE/FE(o), 8*GE/FE(e)	8*GE/FE(o), 8*GE/FE(e), 16*E1
Cabinet installation standard	IEC60297, ETSI300-119, IEC60297 (23-inch)	IEC60297, ETSI300-119, IEC60297 (23-inch)	IEC60297, ETSI300-119, IEC60297 (23-inch)
Airflow	Left to right	Left to right	Left to right
SDRAM	4096 MByte	1 GByte	1 GByte
Flash	64 MByte	128 MByte	128 MByte
CF card	2048 MByte (virtual CF card and cannot be replaced) (Note1)	512 Mbyte (virtual CF card and cannot be replaced)	512 Mbyte (virtual CF card and cannot be replaced)
Power consumption (Typical power consumption)	Dual-DC: 89.0 W (-48V) Dual-AC: 91.4 W (220V) Dual-AC: 94.6 W (110V)	49.8 W	52.1 W
Heat dissipation	Dual-DC: 288.753 BTU/hour (-48V) Dual-AC: 296.540 BTU/hour (220V) Dual-AC: 306.922 BTU/hour (110V)	166.861 BTU/hour	176.724 BTU/hour
Built-in power	Dual-DC or Dual-AC	Dual-DC	Dual-DC
Power input	DC:-38.4 to -72.0 V (-48V/-60V rated) AC: 100 to 240V (110V/220V rated)	DC:-38.4 to -72.0 V (-48V/-60V rated) AC adapter: 100 to 240V	DC:-38.4 to -72.0 V (-48V/-60V rated) AC adapter: 100 to 240V
External AC power	Not supported	Supported	Supported
External AC power adapter	Not supported	Supported	Supported
Physical dimensions (Note 2)	Height: 44.45mm (1.75 in.) (1U) Width: 442mm (17.40 in.) Depth: 220mm (8.66 in.)	Height: 44.45 mm (1.75 in.) (1U) Width: 442mm (17.40 in.) Depth: 220mm (8.66 in.)	Height: 44.45 mm (1.75 in.) (1U) Width: 442mm (17.40 in.) Depth: 220mm (8.66 in.)
Weight	DC: 4.7kg (10.36 lb) AC: 4.9kg (10.80 lb)	3.0 kg (6.6 lb)	3.0 kg (6.6 lb)

Item		NE05E-SQ	NE05E-SE	NE05E-SF
Operating environment (Note 3)	Temperature	DC: -40 to 65°C (-40 to 149°F) AC: -20 to 65°C (-4 to 149°F)	-40 to +65°C (-40 to 149°F)	-40 to +65°C (-40 to 149°F)
	Humidity	5% to 95% RH	5% to 95% RH	5% to 95% RH
	Altitude	≤4000 m (13123.4 feet). If the altitude is between 1800 meters (5905.44 feet) and 4000 meters, the operating temperature of the device must decrease by 1 °C (1.8 °F) for every 220 meters (721.78 feet) increase in altitude.		
	Temperature	-40 to 70°C (-40 to 158°F)	-40 to 70°C (-40 to 158°F)	-40 to 70°C (-40 to 158°F)
	Humidity	5% to 100%	5% to 100%	5% to 100%
	Altitude	≤5000 m	≤5000 m	≤5000 m
Regulatory compliance		<b>EMC</b> <ul style="list-style-type: none"> <li>• CISPR22 Class A</li> <li>• EN 55022 Class A</li> <li>• AS/NZS CISPR22 Class A</li> <li>• FCC Part 15 Subpart B Class A</li> <li>• ICES 003 Class A</li> <li>• VCCI V-3 Class A</li> <li>• VCCI V-4</li> <li>• IEC 61000-4-2</li> <li>• EN 61000-4-2</li> <li>• IEC 61000-4-3</li> <li>• EN 61000-4-3</li> <li>• IEC 61000-4-4</li> <li>• EN61000-4-4</li> <li>• IEC 61000-4-5</li> <li>• EN 61000-4-5</li> <li>• IEC 61000-4-6</li> <li>• EN 61000-4-6</li> <li>• IEC 61000-4-29</li> <li>• EN 61000-4-29</li> <li>• IEC 61000-3-2</li> <li>• EN 61000-3-2</li> <li>• IEC 61000-3-3</li> <li>• EN 61000-3-3;</li> <li>• IEC 61000-6-4 Class A</li> <li>• EN 61000-6-4 Class A</li> <li>• CISPR24</li> </ul>	<b>EMC</b> <ul style="list-style-type: none"> <li>• CISPR22 Class A</li> <li>• CISPR24</li> <li>• EN 55022 Class A</li> <li>• EN 50024</li> <li>• ETSI EN 300 386 Class A</li> <li>• ETSI ES 201 468</li> <li>• CFR 47 FCC Part 15 Class A</li> <li>• ICES 003 Class A</li> <li>• AS/NZS CISPR22 Class A</li> <li>• GB9254 Class A</li> <li>• VCCI Class A</li> <li>• CNS 13438 Class A</li> <li>• IEC 61000-3-2/3</li> <li>• EN 61000-3-2/3</li> </ul> <b>Safety</b> <ul style="list-style-type: none"> <li>• IEC 60950-1</li> <li>• IEC/EN 41003</li> <li>• EN 60950-1</li> <li>• UL 60950-1</li> <li>• CSA C22.2 No 60950-1</li> <li>• AS/NZS 60950.1</li> <li>• BS EN 60950-1</li> <li>• IS 13252</li> <li>• GB 4943</li> <li>• FDA rules, 21 CFR 1040.10 and 1040.11</li> <li>• IEC 60825-1, IEC 60825-2, EN 60825-1, EN 60825-2</li> </ul>	

Item	NE05E-SQ	NE05E-SE	NE05E-SF
	<ul style="list-style-type: none"> <li>• EN 55024</li> <li>• ETSI EN 300 386</li> <li>• EN 61000-6-2</li> <li>• IEC 61000-6-2</li> <li>• EN 50121-4</li> <li>• EN 50155</li> <li>• EN 50121-3-2</li> <li>• IEEE 1613</li> <li>• IEC 61850-3</li> <li>• IEC/TS 61000-6-5</li> </ul> <p><b>Safety</b></p> <ul style="list-style-type: none"> <li>• IEC 60950-1</li> <li>• EN 60950-1</li> <li>• UL 60950-1</li> <li>• CSA C22.2 No 60950-1</li> <li>• AS/NZS 60950.1</li> <li>• IEC 60825-1</li> <li>• IEC 60825-2</li> <li>• EN 60825-1</li> <li>• EN 60825-2</li> <li>• 21 CFR 1040.10 and Laser Notice 50</li> </ul> <p><b>Grounding</b></p> <ul style="list-style-type: none"> <li>• ITU-T K.27</li> <li>• ETSI EN 300 253</li> </ul> <p><b>Environmental protection</b></p> <ul style="list-style-type: none"> <li>• RoHS</li> <li>• REACH</li> <li>• WEEE</li> </ul>	<ul style="list-style-type: none"> <li>• GB 7247</li> </ul> <p><b>Grounding</b></p> <ul style="list-style-type: none"> <li>• ITU-T K.27</li> <li>• ETSI EN 300 253</li> </ul> <p><b>Environmental protection</b></p> <ul style="list-style-type: none"> <li>• RoHS</li> <li>• REACH</li> <li>• WEEE</li> </ul>	

 **NOTE**

Note1: There are two CF cards equipped on an NE05E-SQ device. One is the active CF card, and the other is standby CF card, each of which has a capacity of 1024 MB. The slave CF card can only back up the system software, patch, PAF, and configuration files. When the startup system-software, startup patch, startup patch or start save-configuration command is run to specify a file to be loaded at a next startup, the file path cannot be set to the slave CF card.

Note 2: In the physical dimensions shown in the table, the width (W) does not include the rack-mounting ears.

Note 3: Temperature and humidity are measured at 1.5 m (4.92 feet.) above the floor and 0.4 m (1.31 feet.) in front of the cabinet. There should be no protection board on the front or back of the cabinet.

Table 5. Specifications of NE05E-SG / NE05E-SH / NE05E-SI / NE05E-SN

Item	NE05E-SG	NE05E-SH	NE05E-SI	NE05E-SN
Switching capacity (IPv4/IPv6)	24 Gbps (12 Gbps upstream, 12 Gbps downstream)	24 Gbps (12 Gbps upstream, 12 Gbps downstream)	24 Gbps (12 Gbps upstream, 12 Gbps downstream)	24 Gbps (12 Gbps upstream, 12 Gbps downstream)
Forwarding performance (IMIX)	10.135 Mpps	10.135 Mpps	17.857 Mpps	17.856Mpps
MTBF (year)	40	40	40	40
MTTR (hour)	2	2	2	2
System reliability	0.99999	0.99999	0.99999	0.99999
Clock synchronization	1588v2 and Ethernet synchronization	1588v2 and Ethernet synchronization	1588v2 and Ethernet synchronization	1588v2 and Ethernet synchronization
Number of swappable slots	No swappable slot	No swappable slot	No swappable slot	No swappable slot
Service interface (Note 1,2)	4*GE(o), 4*GE/FE(e), 4*GE/FE Combo	4*GE(o), 4*GE/FE(e), 4*GE/FE Combo, 16*E1	4*GE(o), 4*GE/FE(o), 4*GE/FE(e) with PoE+	4*GE(o), 4*GE/FE(e), 4*GE/FE Combo, 16*E1
Cabinet installation standard	IEC60297, ETSI300-119, IEC60297 (23-inch)	IEC60297, ETSI300-119, IEC60297 (23-inch)	IEC60297, ETSI300-119, IEC60297 (23-inch)	IEC60297, ETSI300-119, IEC60297 (23-inch)
Airflow	Natural heat dissipation	Natural heat dissipation	Left to right	Natural heat dissipation
SDRAM	1 GByte	1 GByte	512 MByte	1 GByte
Flash	128 MByte	128 MByte	128 MByte	128 MByte
CF card	512 MByte (virtual CF card and cannot be replaced)	512 MByte (virtual CF card and cannot be replaced)	128 MByte (virtual CF card and cannot be replaced)	512 MByte (virtual CF card and cannot be replaced)
Power consumption (Typical power consumption)	24.63 W	29.42 W	31.87 W	29.92 W
Heat dissipation	83.576 BTU/hour	99.117 BTU/hour	108.137 BTU/hour	95.710 BTU/hour
Built-in power	Dual-DC	Dual-DC	Single-AC	Dual-AC
Power input	DC: -38.4 to -72.0V (-48V/-60V rated)	DC: -38.4 to -72.0V (-48V/-60V rated)	AC: 100 to 240V (110V/220V rated) Supports 4 POE output	AC: 100 to 240V (110V/220V rated)
External AC power	Supported	Supported	Not supported	Not supported
External AC power adapter	Supported	Supported	Not supported	Not supported

Item	NE05E-SG	NE05E-SH	NE05E-SI	NE05E-SN	
Physical dimensions (Note 3)	Height: 44.45 mm (1.75 in.) (1U)  Width: 442 mm (17.40 in.)  Depth: 220mm (8.66 in.)	Height: 44.45 mm (1.75 in.) (1U)  Width: 442 mm (17.40 in.)  Depth: 220mm (8.66 in.)	Height: 44.45 mm (1.75 in.) (1U)  Width: 442 mm (17.40 in.)  Depth: 220mm (8.66 in.)	Height: 44.45 mm (1.75 in.) (1U)  Width: 442 mm (17.40 in.)  Depth: 310mm (12.2 in.)	
Weight	4 kg (8.8 lb)	4 kg (8.8 lb)	3 kg (6.61 lb)	5.1 kg (11.24 lb)	
	Temperature	-40 to +65°C (-40 to 149°F)	-40 to +65°C (-40 to 149°F)	-20 to +60°C (-40 to 140 °F)	
	Humidity	5% RH to 95% RH	5% RH to 95% RH	5% RH to 95% RH	
	Altitude	$\leq$ 4000 m (13123.4 feet). If the altitude is between 1800 meters (5905.44 feet) and 4000 meters, the operating temperature of the device must decrease by 1 °C (1.8 °F) for every 220 meters (721.78 feet) increase in altitude.zzzzzzzzzzzz			
	Temperature	-40 to 70°C (-40 to 158°F)	-40 to 70°C (-40 to 158°F)	-40 to 70°C (-40 to 158°F)	
	Humidity	5% to 100%	5% to 100%	5% to 100%	
	Altitude	$\leq$ 5000 m	$\leq$ 5000 m	$\leq$ 5000 m	
Regulatory compliance	<p><b>EMC</b></p> <ul style="list-style-type: none"> <li>• CISPR22 Class A</li> <li>• CISPR24</li> <li>• EN 55022 Class A</li> <li>• EN 50024</li> <li>• ETSI EN 300 386 Class A</li> <li>• ETSI ES 201 468</li> <li>• CFR 47 FCC Part 15 Class A</li> <li>• ICES 003 Class A</li> <li>• AS/NZS CISPR22 Class A</li> <li>• GB9254 Class A</li> <li>• VCCI Class A</li> <li>• CNS 13438 Class A</li> <li>• IEC 61000-3-2/3</li> <li>• EN 61000-3-2/3</li> <li>• IEC61850-3 (NE05E-SN)</li> <li>• EN50121-3-2/4 (NE05E-SN)</li> <li>• IEEE1613 (NE05E-SN)</li> </ul> <p><b>Safety</b></p> <ul style="list-style-type: none"> <li>• IEC 60950-1</li> <li>• IEC/EN 41003</li> </ul>				

Item	NE05E-SG	NE05E-SH	NE05E-SI	NE05E-SN
	<ul style="list-style-type: none"> <li>• EN 60950-1</li> <li>• UL 60950-1</li> <li>• CSA C22.2 No 60950-1</li> <li>• AS/NZS 60950.1</li> <li>• BS EN 60950-1</li> <li>• IS 13252</li> <li>• GB 4943</li> <li>• FDA rules, 21 CFR 1040.10 and 1040.11</li> <li>• IEC 60825-1, IEC 60825-2, EN 60825-1, EN 60825-2</li> <li>• GB 7247</li> </ul> <p><b>Environmental protection</b></p> <ul style="list-style-type: none"> <li>• RoHS</li> <li>• REACH</li> <li>• WEEE</li> </ul>			

 **NOTE**

Note 1: Combo interface includes one SFP interface and one electrical interface. The SFP and electrical interfaces cannot be used at the same time.

Note 2: In NE05E-SI, each FE/GE3 interface with PoE+ supports a maximum of 30 W output.

Note 3: In the physical dimensions shown in the table, the width (W) does not include the rack-mounting ears.

Note 4: Temperature and humidity are measured at 1.5 m (4.92 feet.) above the floor and 0.4 m (1.31 feet.) in front of the cabinet. There should be no protection board on the front or back of the cabinet.

Table 6. Specifications of NE05E-SJ / NE05E-SK / NE05E-SL / NE05E-SM

Item	NE05E-SJ	NE05E-SK	NE05E-SL	NE05E-SM
Switching capacity (IPv4/IPv6)	12 Gbps (6 Gbps upstream, 6 Gbps downstream)	12 Gbps (6 Gbps upstream, 6 Gbps downstream)	12 Gbps (6 Gbps upstream, 6 Gbps downstream)	8 Gbps (4 Gbps upstream, 4 Gbps downstream)
Forwarding performance (IMIX)	8.928 Mpps	8.928 Mpps	8.928 Mpps	5.952Mpps
MTBF (year)	40	40	40	40
MTTR (hour)	2	2	2	2
System reliability	0.99999	0.99999	0.99999	0.99999
Clock synchronization	1588v2 and Ethernet synchronization			
Number of swappable slots	No swappable slot	No swappable slot	No swappable slot	No swappable slot

Item	NE05E-SJ	NE05E-SK	NE05E-SL	NE05E-SM
Service interface (Note 1,2)	2*GE/FE Combo, 2*GE/FE(o), 2*GE/FE(e)	2*GE/FE Combo, 2*GE/FE(o), 2*GE/FE(e)	2*GE/FE Combo, 2*GE/FE(o), 2*GE(o)	1*GE/FE(o), 1*GE/FE Combo with POE+, 2*GE/FE(e) with PoE+
Cabinet installation standard	IEC60297, ETSI300-119, IEC60297 (23-inch)	IEC60297, ETSI300-119, IEC60297 (23-inch)	-	-
Airflow	Natural heat dissipation	Natural heat dissipation	Natural heat dissipation (IP65)	Natural heat dissipation (IP65)
SDRAM	512 MByte	512 MByte	512 MByte	512 MByte
Flash	128 MByte	128 MByte	128 MByte	128 MByte
CF card	128 MByte (virtual CF card and cannot be replaced)	128 MByte (virtual CF card and cannot be replaced)	128 MByte (virtual CF card and cannot be replaced)	128 MByte (virtual CF card and cannot be replaced)
Power consumption (Typical power consumption)	11.42 W	15.93 W	13.1 W	14.46 W( no PoE); 250.79 W(PoE full configuration)
Heat dissipation	46.947 BTU/hour	51.684 BTU/hour	52.397 BTU/hour	59.113 BTU/hour
Built-in power	Single-AC	Single-DC	Single-AC	Single-AC
Power input	AC 100 to 240V (220V rated)	-38.4 to -72V (-48V rated)	AC 100 to 240V ( 220V rated)	AC 100 to 240V (220V rated) Supports 3 POEs output
External AC power	Not supported	Not supported	Not supported	Not supported
External AC power adapter	Not supported	Not supported	Not supported	Not supported
Physical dimensions (Note 3)	Height: 43.6 mm (1.72 in )  Width: 250 mm (9.84 in.)  Depth: 180mm (7.09 in.)	Height: 43.6 mm (1.72 in )  Width: 250 mm (9.84 in.)  Depth: 180 mm (7.09 in.)	Height: 52 mm (2.05 in.)  Width: 180 mm (7.09 in.)  Depth: 250 mm (9.84 in.)	Height: 52 mm (2.05 in.)  Width: 180 mm (7.09 in.)  Depth: 250 mm (9.84 in.)
Weight	1.8 kg (4.0 lb)	1.9 kg (4.2 lb)	2.7 kg (6.0 lb)	2.9 kg (6.4 lb)
Temperature	-40 to +65°C	-40 to +65°C	-40 to +55°C (no Solar radiation)  -40 ~ +50°C (Solar radiation)	-40 to +55°C (no Solar radiation)  -40 ~ +50°C (Solar radiation)
	5% RH to 95% RH	5% RH to 95% RH	5% RH to 95% RH	5% RH to 95% RH

Item		NE05E-SJ	NE05E-SK	NE05E-SL	NE05E-SM
	Altitude	≤4000 m (13123.4 feet). If the altitude is between 1800 meters (5905.44 feet) and 4000 meters, the operating temperature of the device must decrease by 1 °C (1.8 °F) for every 220 meters (721.78 feet) increase in altitude.			
	Temperature	-40 to 70°C (-40 to 158°F)	-40 to 70°C (-40 to 158°F)	-40 to 70°C (-40 to 158°F)	-40 to 70°C (-40 to 158°F)
	Humidity	5% to 100%	5% to 100%	5% to 100%	5% to 100%
	Altitude	≤5000 m	≤5000 m	≤5000 m	≤5000 m
Regulatory compliance		<p><b>EMC</b></p> <ul style="list-style-type: none"> <li>• CISPR22 Class B</li> <li>• CISPR24</li> <li>• EN 55022 Class B</li> <li>• EN 50024</li> <li>• ETSI EN 300 386 Class B</li> <li>• ETSI ES 201 468</li> <li>• ETSI EN 301 489 Class B</li> <li>• FCC Part 2</li> <li>• FCC Part 22</li> <li>• FCC Part 24</li> <li>• CES 003 Class B</li> <li>• AS/NZS CISPR22 Class B</li> <li>• GB9254 Class B</li> <li>• VCCI Class B</li> <li>• CNS 13438 Class B</li> <li>• IEC 61000-3-2/3</li> <li>• EN 61000-3-2/3</li> <li>• ITU-T K.20/44/45</li> <li>• IEC61850-3 (NE05E-SL/SM)</li> <li>• EN50121-3-2/4 (NE05E-SL/SM)</li> <li>• IEEE1613 (NE05E-SL/SM)</li> </ul> <p><b>Safety</b></p> <ul style="list-style-type: none"> <li>• IEC 60950-1</li> <li>• IEC/EN 41003</li> <li>• EN 60950-1</li> <li>• AS/NZS 60950.1</li> <li>• BS EN 60950-1</li> <li>• GB 4943</li> <li>• FDA rules, 21 CFR 1040.10 and 1040.11</li> <li>• IEC 60825-1, IEC 60825-2, EN 60825-1,</li> </ul>			

Item	NE05E-SJ	NE05E-SK	NE05E-SL	NE05E-SM
	<ul style="list-style-type: none"> <li>• EN 60825-2</li> <li>• GB 7247</li> </ul> <p><b>Environmental protection</b></p> <ul style="list-style-type: none"> <li>• RoHS</li> <li>• REACH</li> <li>• WEEE</li> </ul>			

 **NOTE**

Note 1: Combo interface includes one SFP interface and one electrical interface. The SFP and electrical interfaces cannot be used at the same time.

Note 2: NE05E-SM supports two GE/FE electrical interfaces with PoE+ (each supports a maximum of 150 W output) and one GE/FE Combo interface with POE+ (supports a maximum of 150 W output when it works in electrical mode), and the three interfaces support a maximum 210 W in total.

Note 3: In the physical dimensions shown in the table, the width (W) does not include the rack-mounting ears.

Note 4: Temperature and humidity are measured at 1.5 m (4.92 feet.) above the floor and 0.4 m (1.31 feet.) in front of the cabinet. There should be no protection board on the front or back of the cabinet.

## Ordering Information

To place an order, visit the [UniSTAR SCT](#) Workspace.

### Basic Configuration Bundle

Table 7. NE08E-S6E Basic Configuration Bundle

Order Name	BOM Number	Description	Remarks
NEDB00CASE00	02311NPF	Assembly Chassis(-48V)	-
NEDD00CXP00	03031YJP	System Control,Cross-connect and Multi-protocol Process Unit A	-

Table 8. NE08E-S6 Basic Configuration Bundle

Order Name	BOM Number	Description	Remarks
NEDMHOST1100	02311CMG	NE08E-S6 Basic System,Double Control Boards,Double DC Powers	-
NEDMHOST1200	02311CMH	NE08E-S6 Basic System,One Control Board,Double DC Powers	-
NEDMHOST1300	02311CMJ	NE08E-S6 Clock Enhanced System,Double Control Boards,Double DC Powers	-
NEDMHOST1400	02311CMK	NE08E-S6 Clock Enhanced System,One Control Board,Double DC Powers	-
NEDMHOST1700	02311GVT	NE08E-S6 Clock Enhanced System,Double Control Boards,Double AC Powers	-

Order Name	BOM Number	Description	Remarks
NEDMHOST1800	02311GVV	NE08E-S6 Clock Enhanced System,One Control Board,Double AC Powers	-
NEDMHOST1600	02311GVS	NE08E-S6 Basic System,One Control Board,Double AC Powers	-
NEDMHOST1500	02311GVR	NE08E-S6 Basic System,Double Control Boards,Double AC Powers	-

Table 9. NE05E-S2 Basic Configuration Bundle

Order Name	BOM Number	Description	Remarks
NECM00HOST06	02311CML	NE05E-S2 System,With 4 Channels GE/FE(Optical),4 Channels GE/FE(Electric) and 2 Channels GE(Optical) )	-

Table 10. NE05E-SQ Basic Configuration Bundle

Order Name	BOM Number	Description	Remarks
NECMHSTA0200	02350WSF	NE05E-SQ - 2 channels DC entries, with 4*10GE(o), 8*10GE/GE/FE(o), 8*GE/FE(o), 8*GE/FE(e)	-
NECMHSTB0200	02350WSG	NE05E-SQ - 2 channels AC entries, with 4*10GE(o), 8*10GE/GE/FE(o), 8*GE/FE(o), 8*GE/FE(e)	-
NECMHSTA0201	02351QCS	NE05E-SQ - 2 channels DC entries, with 4*10GE(o), 8*10GE/GE/FE(o), 8*GE/FE(o), 8*GE/FE(e)	For India Only
NECMHSTB0201	02351QCT	NE05E-SQ - 2 channels AC entries, with 4*10GE(o), 8*10GE/GE/FE(o), 8*GE/FE(o), 8*GE/FE(e)	For India Only

Table 11. NE05E-SE/SF Basic Configuration Bundle

Order Name	BOM Number	Description	Remarks
NECM0HSDEN00	02350DYQ	NE05E-SF 44G System,2*10GE(XFP),8*GE/FE(o),8*GE/FE(e),2*8E1	-
NECM00HSDN00	02350DYZ	NE05E-SE 44G System,2*10GE(XFP),16*GE/FE(o),8*GE/FE(e)	-

Table 12. NE05E-SG/SH/SI/SN Basic Configuration Bundle

Order Name	BOM Number	Description	Remarks
NECM000HSA00	02350DYT	NE05E-SG 12G System,DC,4*GE(o),4*GE/FE(e),4*GE/FE Combo,Passive cold,-40~65degC	-
NECM000HSD00	02350DYU	NE05E-SH 12G System,DC,4*GE(o),4*GE/FE(e),4*GE/FE Combo,16E1,Passive cold,-40~65degC	-

Order Name	BOM Number	Description	Remarks
NECM00HSAP00	02350DYV	NE05E-SI 12G System,AC,4*GE(o),4*GE/FE(o),4*GE/FE(e),Support 4*PoE+	-
NECM00HSAE00	02350LTQ	NE05E-SN 12G System,Double AC,4*GE(o),4*GE/FE(e),4*GE/FE Combo,16E1,Passive cold,-40~65degC	-

Table 13. NE05E-SJ/SK/SM/SL Basic Configuration Bundle

Order Name	BOM Number	Description	Remarks
NECM000AIC00	02350DYW	NE05E-SJ System,Indoor,AC,2*GE/FE Combo,2*GE/FE(o),2*GE/FE(e)	-
NECM000AOC00	02350DCW	NE05E-SL System,Outdoor,AC,2*GE/FE Combo,2*GE/FE(o),2*GE(o)	-
NECM00AOCP00	02350DCX	NE05E-SM System,Outdoor,AC,1*GE/FE(o),1*GE/FE Combo with POE+,2*GE/FE(e) with PoE+	-
NECM000DIC00	02350DYX	NE05E-SK System,Indoor,DC,2*GE/FE Combo,2*GE/FE(o),2*GE/FE(e)	-

## Auxiliary Materials

Table 14. Table 20. Compatible Auxiliary Materials ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/SL
			S6E	S6	S2	S Q			
PW1B0IMB0300	21041214	Indoor Mini Box (3U)	●	●	●	●	●	-	-

## Interface Boards

Table 15. Compatible Interface Boards ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08 E-S6E	NE08 E-S6	NE05 E-S2	Remarks
NEDD00EX4S00	03058043	4Channel 10GE Optical Interface Board(SFP+)	●	-	-	
NEDD000EX2S0	03056453	2 Channels 10GE Base LAN/WAN SFP+ Optical Interface Board	-	●	-	Only Support by Control boards NED2CXPB/CXPE
NEDD00EX2S00	03057141	2 Channel 10GE Optical Interface Board(SFP+)	●	-	-	Only Support by Control board NED3CXPA

Order Name	BOM Number	Description	NE08 E-S6E	NE08 E-S6	NE05 E-S2	Remarks
NEDD000EX1S0	03056452	1 Channel 10GE Base LAN/WAN SFP+ Optical Interface Board	●	●	-	-
NEDD00EM8F01	03056455	8 Channels GE/FE Optical Interface Board	●	●	-	-
NEDD00EM8T01	03056458	8 Channels GE/FE Electrical Interface Board	●	●	-	-
NEDD00EM8M00	03056454	4 Channels GE/FE Optical Interface and 4 Channels GE/FE Electric Interface Board	-	●	-	
NEDD00EM4F01	03056456	4 Channels GE/FE Optical Interface Board	●	●	-	-
NEDD00EG400	03056464	4 Channels FE/GE Adaptive Optical Interface Board	-	-	●	-
NEDD00EM4T01	03056457	4 Channels GE/FE Electrical Interface Board	●	●	-	-
NEDD00EG4T00	03056466	4 Channels FE/GE Adaptive Electronic Interface Board	-	-	●	-
NEDD00EG200	03056463	2 Channels GE Optical Interface Board	-	-	●	-
NEDD00EF8F00	03056465	8 Channels Fast Ethernet Optical Interface Board	-	-	●	-
NEDD00EF8T00	03056467	8 Channels Fast Ethernet Electric Interface Board	-	-	●	-
NEDD00CQ1B00	03056459	4 Channels Channelized OC-3c/STM-1c POS Optical Interface Board	●	●	-	
NEDD000PQ100	03056460	4 Channels OC-3/STM-1 POS Optical Interface Board	-	●	-	-
NEDD16E17502	03056461	16 Channels E1 Interface Board(75ohm)	●	●	-	-
NEDD16E17501	03056468	16 Channels E1 Interface Board(75ohm)	-	-	●	-
NEDD32E17501	03057266	32 Channels E1 Interface Board(75ohm)	●	-	-	-
NEDD16E11202	03056462	16 Channels E1 Interface Board(120ohm)	●	●	-	-
NEDD16E11201	03056469	16 Channels E1 Interface Board(120ohm)	-	-	●	-

Order Name	BOM Number	Description	NE08 E-S6E	NE08 E-S6	NE05 E-S2	Remarks
NEDD32E11201	03057267	32 Channels E1 Interface Board(120ohm)	●	-	-	-
NEDD01MPAA00	03056725	4-Channel FXS/FXO+2-Channel E&M+2-Channel RS232+2-Channel RS485 Board	●	●	●	Supported by V200R005C10 and V300R003C00 the later versions.
NEDD001SA800	03056726	8-Channel V.35/X.21/V.24 Board	●	●	●	Supported by V200R005C10 and V300R003C00 the later versions.
NEDD01MP8A00	03056886	4 Channels C37.94 Optical Interface and 4 Channels CoDir64K Electric Interface Board	●	●	●	Supported by V200R005C10 and V300R003C00 the later versions.

## Assembly Cabinet

Table 16. Compatible Assembly Cabinet (R01S100) for NE05E ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE05E-			SG/S H /SI/S N	SJ/SK	SM/S L
			S2	SQ	SE/ SF			
ANCDCF01S100	02359306	ATN R01S100 Assembly Cabinet (DC,Not Supporting Power Backup)	●	●	●	●	-	-
ANCDCF01S101	02359304	ATN R01S100 Assembly Cabinet (DC,Power Backup 1 group of 48V12AH)	●	●	●	●	-	-
WD2D00UELP00	03020FED	Universal E1/T1 Lightning Protection unit	●	●	●	●	-	-
WD2D0UFLPC00	03022KNY	Universal FE or GE Lightning Protection Unit	●	●	●	●	-	-
H83Z3SF01S50	02355391	Components for Socket,Multi Type	●	●	●	●	-	-
H83Z2SF01S50	02355392	Components for Socket,New standard for China	●	●	●	●	-	-
H83Z1SF01S50	02355393	Components for Socket,European Standard	●	●	●	●	-	-
WMM12AH00	24020760	Rechargeable battery,VRLA battery,48V,12Ah,battery group(12V Monobloc),4*(151*98*98)mm,Without Battery Connecters(BB BPL12-12)	●	●	●	●	-	-

Table 17. Compatible Assembly Cabinet (R01S200) for NE08E ("●" indicates "support", and "--" indicates "not support")

Order Name	BOM Number	Description	NE08E-S6 E	NE08E-S 6
ANDCF01S200	02359299	ATN R01S200 Assembly Cabinet (DC,Not Supporting Power Backup)	●	●
ANDCF01S201	02359303	ATN R01S200 Assembly Cabinet (DC,ETP 4830,Power Backup 48V40AH or 48V26AH)	●	●
WD2D00UELPO0	03020FED	Universal E1/T1 Lightning Protection unit	●	●
WD2D0UFLPC00	03022KNY	Universal FE or GE Lightning Protection Unit	●	●
H83Z3SF01S50	02355391	Components for Socket,Multi Type	●	●
H83Z2SF01S50	02355392	Components for Socket,New standard for China	●	●
H83Z1SF01S50	02355393	Components for Socket,European Standard	●	●
WMM12AH00	24020760	Rechargeable battery,VRLA battery,48V,12Ah,battery group(12V Monobloc),4*(151*98*98)mm,Without Battery Connecters(BB BPL12-12)	●	●
WMM26AH01	24020827	Rechargeable Battery,VRLA Battery,48V,26Ah,Battery Group(12V Monobloc),4*(166*175*125)mm,Without Battery Connecters (BB BPL26-12)	●	●
WMM40AH05	24020759	Rechargeable Battery,VRLA Battery,48V,40Ah,Battery Group(12V Monobloc),4*(197*165*171)mm,Without Battery Connecters(BB BPL40-12)	●	●

### Component of GPS Antenna

Table 18. Compatible Component of GPS Antenna ("●" indicates "support", and "--" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
GM-JMP-1	25070076	RF Cable,Copper-clad Aluminium Wire,50ohm,13.5mm,8.7mm,3.55mm,Black,1/2-Inch	●	●	●	●	●	●	●
FEEDERCLB	27150113	Antenna Feeder Accessories,Cable Fixing Clip,For GPS Feeder Cable and MW IF Cable,1 Card 2,Plastic Clip+Rubber Bush,Stainless Steel	●	●	●	●	●	●	●
A000AMP01	27190001	GPS Relay Amplifier,1570.42MHz~1580.42 MHz,22,2,CSGPSRA-22	●	●	●	●	●	●	●

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
WM1NANTE NN00	27010596	Antenna,1575.42 +/- 1.023MHZ,38dBi,Right Circularly Polarized,Omn,0W,0Deg-N/Female,No rack	●	●	●	●	●	●	-
AGPSSUP00	21150707	GPS Antenna Installation Support (Unified Support)	●	●	●	●	●	●	●
ANPX000AU X02	02232ABF	GPS Antenna Installation Package	●	●	●	●	●	●	●
ANPX000AU X03	02232AKR	The GPS Subassembly Package of Outdoor Installation	-	-	-	-	-	-	●
ANPM000GP S01	03031TUX	AE 905S-Basic Configuration(GPS Timing SFP Module,PTP master,SyncE,1.25Gb/s,SMA Coaxial Connector)	●	●	●	●	●	●	●

## Power System

Table 19. Compatible Power System ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK / SM/S L
			S6E	S6	S2	S Q		
QC-PSU	02270072	DC/DC Power System,-40degC~60degC,19V~30V,-53.5V/7A,0,6 outputs	-	●	●	●	●	●
ANDP230ADP 00	02220522	100W Power Module	-	-	●	-	●	●
W04815AF1	01072056	UPM System Power(ETP4830-4815AF)	●	●	●	-	-	-
WMM40AH0 5	24020759	Rechargeable Battery,VRLA Battery,48V,40Ah,Battery Group(12V Monobloc),4*(197*165*171)mm,Without Battery Connecters(BB BPL40-12)	-	●	●	-	-	-
Battery(40 Ah) Bracket	21240076	Supporting Frame of Battery	-	●	●	-	-	-
W04830AF1	01073092	Embedded Power, ETP4830, 220Vac Single-Phase, 30A, Front Cabling, Width 19inch, Height 1U	-	●	-	-	-	-

## Optical/Electrical Transceiver

Table 20. 10 Gbps XFP Optical Transceiver (Commercial) ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
OSX010N08	S4015772	Optical Transceiver(XFP,1310nm,9.95~10.71Gb/s,-6dBm~-1dBm,-14.4dBm,Singlemode,LC,10km)	-	-	-	-	●	-	-
OSX040N09	S4015776	Optical Transceiver(XFP,1550nm,9.95Gb/s to 11.1Gb/s,-1dBm~2dBm,-15dBm,LC,Singlemode,40km)	-	-	-	-	●	-	-
OSX080N06	S4015794	Optical transceiver(XFP,1550nm,9.95Gb/s to 11.1Gb/s,0~4dBm,-24dBm,LC,Singlemode,80km)	-	-	-	-	●	-	-
XFP-LH70-SM 1471	34060547	Optical Transceiver-XFP-1471nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-LC-SM-70km	-	-	-	-	●	-	-
XFP-LH70-SM 1491	34060548	Optical Transceiver-XFP-1491nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-LC-SM-70km	-	-	-	-	●	-	-
XFP-LH70-SM 1511	34060549	Optical Transceiver-XFP-1511nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-LC-SM-70km	-	-	-	-	●	-	-
XFP-LH70-SM 1531	34060550	Optical Transceiver-XFP-1531nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-LC-SM-70km	-	-	-	-	●	-	-
XFP-LH70-SM 1551	34060551	Optical Transceiver-XFP-1551nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-LC-SM-70km	-	-	-	-	●	-	-
XFP-LH70-SM 1571	34060552	Optical Transceiver-XFP-1571nm-9.95~11.1Gb/s-0dBm-4dBm--22dBm-LC-SM-70km	-	-	-	-	●	-	-

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
XFP-LH70-SM 1591	34060553	Optical Transceiver-XFP-1591nm-9.95~1 1.1Gb/s-0dBm-3dBm~-21dBm-LC-SM-70km	-	-	-	-	●	-	-
XFP-LH70-SM 1611	34060554	Optical Transceiver-XFP-1611nm-9.95~1 1.1Gb/s-0dBm-3dBm~-21dBm-LC-SM-70km	-	-	-	-	●	-	-
XFP-LH80-19 5.90	34060515	Optical Transceiver,XFP,1530.33nm,9.9 5G~11.1Gbps,-1~3dBm,-24.0dB m,LC,SM,80km	-	-	-	-	●	-	-
XFP-LH80-19 3.30	34060501	Optical Transceiver,XFP,1550.92nm,9.9 5G~11.1Gbps,-1~3dBm,-24.0dB m,LC,SM,80km	-	-	-	-	●	-	-

Table 21. 10 Gbps XFP Optical Transceiver (Industrial) ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
XFP-1550-10 GE-40km	34060577	Optical Transceiver,XFP,1550nm,9.95Gb /s to 11.1Gb/s,+2dBm,-1dBm,-15dBm ,LC,Single-mode,40km,-40~85C	-	-	-	-	●	-	-

Table 22. 10 Gbps SFP+ Optical Transceiver (Commercial) ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
OSX040N03	S4017482	Optical Transceiver(SFP+,850nm,10Gb/s, -7.3~-1dBm,-11.1dBm,LC, MM,0.3km)	●	●	-	●	-	-	-

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
OSX001002	S4017483	Optical Transceiver(SFP+, 1310nm, 10Gb/s,-8.2~0.5dBm,-12.6dBm,LC,SM, 10km)	●	●	-	●	-	-	-
OMXD30002	S4017484	Optical Transceiver(SFP+, 1550nm,9.95~11.1Gb/s,-4.7~4dBm,-14.1dBm, LC,SM,40km)	●	●	-	●	-	-	-
OSX080N04	02310PVU	Optical Transceiver(SFP+, 1550nm,9.953 ~10.3125Gb/s,0~4dBm,-24dBm, LC,SM,80km)	●	●	-	●	-	-	-
OSX070002	34060687	Optical Transceiver-SFP+-1471nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-L C-SM-70km	●	●	-	●	-	-	-
OSX070003	34060688	Optical Transceiver-SFP+-1491nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-L C-SM-70km	●	●	-	●	-	-	-
OSX070001	34060686	Optical Transceiver-SFP+-1511nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-L C-SM-70km	●	●	-	●	-	-	-
OSX070004	34060689	Optical Transceiver-SFP+-1531nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-L C-SM-70km	●	●	-	●	-	-	-
OSX070005	34060690	Optical Transceiver-SFP+-1551nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-L C-SM-70km	●	●	-	●	-	-	-
OSX070006	34060691	Optical Transceiver-SFP+-1571nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-L C-SM-70km	●	●	-	●	-	-	-
OSX070007	34060692	Optical Transceiver-SFP+-1591nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-L C-SM-70km	●	●	-	●	-	-	-

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
OSX070008	34060693	Optical Transceiver-SFP+-1611nm-9.95~11.1Gb/s-0dBm-4dBm--23dBm-LC-SM-70km	●	●	-	●	-	-	-
OSXD50N00	34061041	XFP SFP+Transceiver-SFP+-850nm-10G/1G--7.3dBm~-1dBm~-9.9dBm-LC-MM-0.3km	-	-	-	●	-	-	-
OSX010N13	34061042	XFP SFP+ Transceiver-SFP+-1310nm-10G/1G--8.2dbm-0.5dbm-Single-mode-14.4dbm-LC-10km	-	-	-	●	-	-	-
OSX040N12	34061043	XFP SFP+ Transceiver-SFP+-1550nm-10G/1G--4.7dbm-4dbm--15.8dbm~-1dBm-SM-40km	-	-	-	●	-	-	-

Table 23. 10 Gbps SFP+ Optical Transceiver (Industrial) ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
OMXD10N02	02310WRD	Optical Transceiver,SFP+,850nm,9.8G,-5dBm,-1dBm,-11.1dBm,LC,MMF,0.1km	●	●	-	●	-	-	-
OSX010N05	34060599	Optical transceiver,SFP+,1310nm,10.3125Gb/s,-8.2~0.5dBm,-14.4dBm,LC,SM,10km	●	●	-	●	-	-	-
OSX040N08	02310WRF	Optical transceiver,SFP+,1550nm,9.95~11.1Gb/s,-4.7~4dBm,-14.1dBm,LC,SM,40km	●	●	-	●	-	-	-

Table 24. 1Gbps/10 Gbps BiDi ESFP Optical Transceiver (Commercial) ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
OSX010B01	34060781	BiDi Transceiver,XFP,TX1270nm/RX1330nm,9.95Gb/s to 11.35Gb/s,-5dBm,0dBm,-14dBm,LC,SM,10km	-	-	-	-	●	-	-
OSX010B00	34060780	BiDi Transceiver,XFP,TX1330nm/RX1270nm,9.95Gb/s to 11.35Gb/s,-5dBm,0dBm,-14dBm,LC,SM,10km	-	-	-	-	●	-	-
OSX010B11	34060546-002	BiDi Transceiver,SFP+,1330nm(Tx)/1270nm(Rx),2.5~11.3Gb/s,-8.2dBm,0.5dBm,-14.4dBm,LC,SM,10km	●	●	-	-	-	-	-
SFP-GE-LX-S M1490-BIDI	34060544-002	BiDi Transceiver,SFP+,1270nm(Tx)/1330nm(Rx),2.5~11.3Gb/s,-8.2dBm,0.5dBm,-14.4dBm,LC,SM,10km	●	●	-	-	-	-	-
SFP-GE-LX-S M1310-BIDI	34060470	BiDi Transceiver,eSFP,Tx1310nm/Rx1490nm,1.25Gb/s,-9dBm,-3dBm,-19.5dBm,LC,SM,10km	●	●	●	●	●	●	-
SFP-GE-LX-S M1490-BIDI	34060475	BiDi Transceiver,eSFP,Tx1490nm/Rx1310nm,1.25Gb/s,-9dBm,-3dBm,-19.5dBm,LC,SM,10km	●	●	●	●	●	●	-
OGEIBIDI41	34060539	Optical Transceiver,eSFP,1310nm(Tx)/1490nm(Rx),1.25Gb/s,-2dBm,3dBm,-23dBm,LC,SM,40km	●	●	●	●	●	●	-
OGEIBIDI40	34060540	Optical Transceiver,eSFP,1490nm(Tx)/1310nm(Rx),1.25Gb/s,-2dBm,3dBm,-23dBm,LC,SM,40km	●	●	●	●	●	●	-

Table 25. 1 Gbps BIDI ESFP Optical Transceiver (Industrial) ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-					
			S6E	S6	S2	S Q	SE/SF	SG/S H /SI/S N	SJ/SK	SM/S L
OGEBIDI10	34060644	BiDi Transceiver,SFP,1310(TX)/1490(RX),1.25Gb/s,-9dBm,-3dBm,-19.5 dBm,LC(-40~85),SM,10km	-	-	-	●	●	●	●	-
OGEBIDI11	34060676	BiDi Transceiver,SFP,1490(TX)/1310(RX),1.25Gb/s,-9dBm,-3dBm,-19.5 dBm,LC(-40~85),SM,10km	-	-	-	●	●	●	●	-

Table 26. 1 Gbps SFP/eSFP Optical/Electrical Transceiver (Commercial) ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-					
			S6E	S6	S2	S Q	SE/SF	SG/S H /SI/S N	SJ/SK	SM/S L
SFP-GE-1000 BaseT	02310RAV	Optical Functional Module,1000BASE-T-SFP Module,RJ45 Electrical Module,Auto Negotiate,Longest Transmission Distance 100m	●	●	●	●	●	●	●	-
eSFP-850nm-1000Base-Sx/FC200 MM	34060286	Optical Transceiver,eSFP,850nm,2.125G b/s(Multi rate),-9.5~-2.5dBm,-17dBm,LC,MM,0.5km	●	●	●	●	●	●	●	-
OSG010N05	S4016067	Optical transceiver(eSFP,1310nm,1.25G b/s,-9dBm~-3dBm,-20dBm,LC,SM,10km)	●	●	●	●	●	●	●	-
OSG040002	S4016954	Optical Transceiver(eSFP,1310nm,1.25G b/s,-5~0dBm,-23dBm,LC,SM,40km)	●	●	●	●	●	●	●	-
OSG080N01	02310RAW	Optical Transceiver,eSFP,1550nm,1.25G b/s,-2~5dBm,-23dBm,LC,SM,80km	●	●	●	●	●	●	●	-

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
eSFP-LH80-S M1471	34060483	Optical Transceiver,eSFP,1471nm,100M ~2.67Gbps,5dBm,0dBm,-28dBm ,LC,80Km	●	●	●	●	●	-	-
eSFP-LH80-S M1491	34060481	Optical Transceiver,eSFP,1491nm,100M ~2.67Gbps,5dBm,0dBm,-28dBm ,LC,80Km	●	●	●	●	●	-	-
eSFP-LH80-S M1511	34060479	Optical Transceiver,eSFP,1511nm,100M ~2.67Gbps,5dBm,0dBm,-28dBm ,LC,80Km	●	●	●	●	●	-	-
eSFP-LH80-S M1531	34060482	Optical Transceiver,eSFP,1531nm,100M ~2.67Gbps,5dBm,0dBm,-28dBm ,LC,80Km	●	●	●	●	●	-	-
eSFP-LH80-S M1551	34060478	Optical Transceiver,eSFP,1551nm,100M ~2.67Gbps,5dBm,0dBm,-28dBm ,LC,80Km	●	●	●	●	●	-	-
eSFP-LH80-S M1571	34060476	Optical Transceiver,eSFP,1571nm,100M ~2.67Gbps,5dBm,0dBm,-28dBm ,LC,80Km	●	●	●	●	●	-	-
eSFP-LH80-S M1591	34060477	Optical Transceiver,eSFP,1591nm,100M ~2.67Gbps,5dBm,0dBm,-28dBm ,LC,80Km	●	●	●	●	●	-	-
eSFP-LH80-S M1611	34060480	Optical Transceiver,eSFP,1611nm,100M ~2.67Gbps,5dBm,0dBm,-28dBm ,LC,80Km	●	●	●	●	●	-	-

Table 27. 1 Gbps SFP/eSFP Optical/Electrical Transceiver (Industrial) ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
eSFP(S)-1310 nm-1000Base -Lx	34060290	Optical Transceiver,eSFP,1310nm,1.25G b/s,-9.5~3dBm,-20dBm,LC(-40~85),SM,10km	-	-	-	●	●	●	●
eSFP-1310nm -Lx-40Km	34060320	Optical transceiver,eSFP,1310nm,1.25G b/s,-5dBm,0dBm,-22.5dBm,LC(-40~85),40km	-	-	-	●	●	●	●

Table 28. 155 Mbps SFP/eSFP Optical Transceiver (Commercial) ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
eSFP-FE-LX-S M1310	S4015755	Optical Transceiver(eSFP,1310nm,STM1, -15dBm~8dBm,-31dBm,Single mode,LC,15Km)	●	●	●	●	●	●	-
eSFP-FE-LH40 -SM1310	S4015715	Optical Transceiver(eSFP,1310nm,STM1, -5dBm~0dBm,-37dBm,Single mode,LC,40Km)	●	●	●	●	●	●	-
eSFP-FE-LH80 -SM1550	34060282	Optical Transceiver,eSFP,1550nm,STM1, -5~0dBm,-37dBm,LC,SM,80km	●	●	●	●	●	●	-
OSC002B01	34060588	Optical Transceiver,eSFP,1310nm,2.048 Mb/s,-15dBm,-8dBm,-26dBm,LC ,SM,2km	●	●	●	-	-	-	-

Table 29. 155 Mbps SFP/eSFP Optical Transceiver (Industrial) ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
eSFP-1310nm -I-1	34060307	Optical Transceiver,eSFP(industry),1310nm,STM1,-15~-8dBm,-31dBm,LC,SM,15km	-	-	-	-	●	●	●
eSFP-1310nm -L-1.1	34060308	Optical Transceiver,eSFP(industry),1310nm,STM1,-5~0dBm,-37dBm,LC,SM,40km	-	-	-	-	●	●	●
eSFP-1550nm -L-1.2	34060309	Optical Transceiver,eSFP(industry),1550nm,STM1,-5~0dBm,-37dBm,LC,SM,80km	-	-	-	-	●	●	●

Table 30. GPON-SFP Optical Transceiver (Commercial) ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK	SM/S L
			S6E	S6	S2	S Q			
MA5671A	03031QHU	GPON ONU Device-SFP-1490nm(rx)/1310nm(tx)-2.488G(rx)/1.244G(TX)-0.5dBm-5dBm--27dBm-SC/APC-20km-Air ONU--40~85degC	-	-	-	-	-	●	-

## Software Configuration

The NE08E&NE05E Series Routers provide software license charging policies. The general principle is, **base packages + feature licenses + upgrade fees**.

- Base package: mandatory for each version and must be purchased for a new site.
- Feature license: optional and can be purchased based on requirements to implement certain functions.
- Software version upgrade fee: The software version upgrade fee is required if a current version needs to be upgraded to a later version to support new features.

Table 31. Basic Software Package ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-		NE05E-		SG/S H /SI/S N	SJ/SK / SM/S L
			S6E	S6	S2	S Q		

Order Name	BOM Number	Description	NE08E-S6E	NE08E-S6	NE05E-S2	NE05E-SQ	SE/SF	SG/S H /SI/S N	SJ/SK / SM/S L
NECS00V2R600	88033GXG	NE05E-SJ/SK/SM/SL V200R006 Enterprise Software Package	-	-	-	-	-	-	●
NECS00V2R601	88033GXH	NE05E-S2 V200R006 Enterprise Software Package	-	-	●	-	-	-	-
NECS00V2R602	88033GXJ	NE05E-SG/H/I/N V200R006 Enterprise Software Package	-	-	-	-	-	●	-
NECS00V2R603	88033GYU	NE05E-SE/F V200R006 Enterprise Software Package	-	-	-	-	●	-	-
NECS00V3R300	88034PJG	NE05E-SQ V300R003 Enterprise Software package, Electronic	-	-	-	●	-	-	-
NEDS00V2R600	88033GXF	NE08E-S6 V200R006 Enterprise Software Package	-	●	-	-	-	-	-
NEDS00V3R300	88034PJD	NE08E-S6E V300R003 Enterprise Software package, Electronic	●	-	-	-	-	-	-

Table 32. Basic Software Upgrade Package ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-S6E	NE08E-S6	NE05E-S2	NE05E-SQ	SE/SF	SG/S H /SI/S N	SJ/SK / SM/S L
NECSUPYEAR00	88032UKD	NE05E-SJ/SK/SM/SL Software Upgrade Fee(Per Year)	-	-	-	-	-	-	●
NECSUPYEAR01	88032UKA	NE05E-S2 Software Upgrade Fee(Per Year)	-	-	●	-	-	-	-
NECSUPYEAR02	88032UJW	NE05E-SG/H/I/N Software Upgrade Fee(Per Year)	-	-	-	-	-	●	-
NEGSUPYEAR03	88032UJS	NE05E-SE/F Software Upgrade Fee(Per Year)	-	-	-	-	●	-	-
NECSUPYEAR04	88033TFY	NE05E-SQ Software Upgrade Fee(Per Year)	-	-	-	●	-	-	-
NECSOUPVER00	88032UKE	NE05E-SJ/SK/SM/SL Rn to R(n+1) Software Enhanced Fee	-	-	-	-	-	-	●
NECSOUPVER01	88032UKB	NE05E-S2 Rn to R(n+1) Software Enhanced Fee	-	-	●	-	-	-	-
NECSOUPVER02	88032UJX	NE05E-SG/H/I/N Rn to R(n+1) Software Enhanced Fee	-	-	-	-	-	●	-

Order Name	BOM Number	Description	NE08E-S6E	NE08E-S6	NE08E-S2	NE05E-SQ	SE/SF	SG/S H /SI/S N	SJ/SK / SM/S L
NECSOUPVER03	88032UJT	NE05E-SE/F Rn to R(n+1) Software Enhanced Fee	-	-	-	-	●	-	-
NECSOUPVER04	88033TGA	NE05E-SQ Rn to R(n+1) Software Enhanced Fee	-	-	-	●	-	-	-
NEDSUPYEAR00	88032UJN	NE08E-S6 Software Upgrade Fee(Per Year)	-	●	-	-	-	-	-
NEDSUPYEAR01	88033TFW	NE08E-S6E Software Upgrade Fee(Per Year)	●	-	-	-	-	-	-
NEDSOUPVER00	88032UJP	NE08E-S6 Rn to R(n+1) Software Enhanced Fee	-	●	-	-	-	-	-
NEDSOUPVER01	88033TFX	NE08E-S6E Rn to R(n+1) Software Enhanced Fee	●	-	-	-	-	-	-

## Documents

Table 33. Documents ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Description	NE08E-S6E	NE08E-S6	NE08E-S2	NE05E-SQ	SE/SF	SG/S H /SI/S N	SJ/SK / SM/S L
NECI262DOC00	31189474	NE05E&NE08E Mid-End Router Product Documentation	-	●	●	-	●	●	●
NECI330DOC00	31189985	NE05E&NE08E Mid-End Router Product Documentation	●	-	-	●	-	-	-

## Software Upgrade Paths

To get software release version or patch for NE08E&NE05E, visit [Software Upgrade Paths for NE05E](#).

To get software release version or patch for NE08E&NE05E, visit [Software Upgrade Paths for NE08E](#).

## For More Information

For more information about the Huawei NE08E&NE05E 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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