

# NEo8E&NEo5E Series Ethernet Service Interface Boards



## Product Overview

Ethernet service interface boards are widely used in various network environments. They can accept base station services on the user side, and transmit services upstream on the network side. The Ethernet service interface board supports Layer 2 services, Layer 3 services, and hybrid transmission of Layer 2 and Layer 3 services. (When the main interface is in Layer 2 mode, configure the sub-interface to transmit Layer 2/Layer 3 services.)

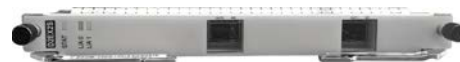
The Huawei ® NEo8E&NEo5E Series Routers support various rates Ethernet service interface, to address requirements for various interface quantities, interface rates, and interface types (optical/electrical). NEo8E-S6E, NEo8E-S6 and NEo5E-S2 support 10GE, GE and FE hot-swappable interface boards (as shown in Figure 1, Figure 2 and Figure 3). The service interface boards of NEo5E-SQ, NEo5E-SE, NEo5E-SF, NEo5E-SG, NEo5E-SH, NEo5ESI, NEo5E-SJ, NEo5E-SK, NEo5E-SL, NEo5E-SM and NEo5E-SN are not swappable and integrated in chassis.

Figure 1. NEo8E&NEo5E 10GE Optical Interface Board



2 Channel 10GE Optical Interface Board(SFP+)

NED3EX2S



2 Channels 10GE Base LAN/WAN SFP+ Optical Interface Board

NED2EX2S



1 Channel 10GE Base LAN/WAN SFP+ Optical Interface Board

NED2EX1S



4 Channel 10GE Optical Interface Board(SFP+)

NED1EX4So

Figure 2. NEo8E&NEo5E GE/FE Optical Interface Board



8 Channels GE/FE Optical Interface Board

NED2EM8F



4 Channels GE/FE Optical Interface Board

NED2EM4F



4 Channels FE/GE Adaptive Optical Interface Board

NED1EG4F



8 Channels Fast Ethernet Optical Interface Board

NED1EF8F

2 Channels GE Optical Interface Board

NED1EG2



4 Channels GE/FE Optical Interface and 4 Channels GE/FE Electric Interface Board

NED2EM8M

Figure 3. NEo8E&NEo5E GE/FE Electronic Interface Board



8 Channels GE/FE Electrical Interface Board

NED2EM8T



4 Channels GE/FE Electrical Interface Board

NED2EM4T



4 Channels FE/GE Adaptive Electronic Interface Board

NED1EG4T



8 Channels Fast Ethernet Electric Interface Board

NED1EF8T

## Product Compatibility

Table 1 and Table 3 show the compatibility information for the Ethernet service interface boards supported in Huawei NEo8E&NEo5E Series Routers. Base on NEo5E&o8EV300Roo3Coo version.

Table 1. Ethernet Service Interface Boards Compatible Chassis ("●" indicates "support", and "-" indicates "not support")

Order name	BOM number	Interface name	Description	V300Roo3Coo	V200Roo6C20	
				NEo8E-S6E	NEo8 E-S6	NEo5 E-S2
NEDD000EX2S0	03056453	NED2EX2S	2 Channels 10GE Base LAN/WAN SFP+ Optical Interface Board	-	●	-
NEDD00EX2S00	03057141	NED3EX2S	2 Channel 10GE Optical Interface Board(SFP+)	●	-	-
NEDD000EX1S0	03056452	NED2EX1S	1 Channel 10GE Base LAN/WAN SFP+ Optical Interface Board	●	●	-

Order name	BOM number	Interface name	Description	V300R003C00	V200R006C20	
				NEo8E-S6E	NEo8E-S6	NEo5E-S2
NEDD00EX4S00	03058043	NED1EX4So	4 Channel 10GE Optical Interface Board(SFP+)	•	-	-
NEDD00EM8F01	03056455	NED2EM8F	8 Channels GE/FE Optical Interface Board	•	•	-
NEDD00EM8T01	03056458	NED2EM8T	8 Channels GE/FE Electrical Interface Board	•	•	-
NEDD00EM8M00	03056454	NED2EM8M	4 Channels GE/FE Optical Interface and 4 Channels GE/FE Electric Interface Board	-	•	-
NEDD00EM4F01	03056456	NED2EM4F	4 Channels GE/FE Optical Interface Board	•	•	-
NEDD000EG400	03056464	NED1EG4F	4 Channels FE/GE Adaptive Optical Interface Board	-	-	•
NEDD00EM4T01	03056457	NED2EM4T	4 Channels GE/FE Electrical Interface Board	•	•	-
NEDD00EG4T00	03056466	NED1EG4T	4 Channels FE/GE Adaptive Electronic Interface Board	-	-	•
NEDD000EG200	03056463	NED1EG2	2 Channels GE Optical Interface Board	-	-	•
NEDD00EF8F00	03056465	NED1EF8F	8 Channels Fast Ethernet Optical Interface Board	-	-	•
NEDD00EF8T00	03056467	NED1EF8T	8 Channels Fast Ethernet Electric Interface Board	-	-	•

Table 2. Compatible Optical/Electrical Transceiver for Hot-swappable Ethernet Service Interface Boards

Order name	Description	Compatible Optical/Electrical Transceiver
NEDD00EX4S00	4 Channel 10GE Optical Interface Board(SFP+)	10 Gbps SFP+ Optical Transceiver (Commercial) 10 Gbps SFP+ Optical Transceiver (Industry)
NEDD000EX2S0	2 Channels 10GE Base LAN/WAN SFP+ Optical Interface Board	10 Gbps SFP+ Optical Transceiver (Commercial) 10 Gbps SFP+ Optical Transceiver (Industry)
NEDD00EX2S00	2 Channel 10GE Optical Interface Board(SFP+)	10 Gbps SFP+ Optical Transceiver (Commercial) 10 Gbps SFP+ Optical Transceiver (Industry)
NEDD000EX1S0	1 Channel 10GE Base LAN/WAN SFP+ Optical Interface Board	10 Gbps SFP+ Optical Transceiver (Commercial) 10 Gbps SFP+ Optical Transceiver (Industry)
NEDD00EM8F01	8 Channels GE/FE Optical Interface Board	155 Mbps SFP/eSFP Optical Transceiver

Order name	Description	Compatible Optical/Electrical Transceiver
		(Commercial) 1 Gbps SFP/eSFP Optical Transceiver (Commercial) 1 Gbps SFP/eSFP Electrical Transceiver (Commercial) 1 Gbps BIDI ESFP Optical Transceiver (Commercial)
NEDDooEM8T01	8 Channels GE/FE Electrical Interface Board	No need Optical/Electrical Transceiver (there are Electrical Transceiver Integrated in Interface)
NEDDooEM8Moo	4 Channels GE/FE Optical Interface and 4 Channels GE/FE Electric Interface Board	155 Mbps SFP/eSFP Optical Transceiver (Commercial) 1 Gbps SFP/eSFP Optical Transceiver (Commercial) 1 Gbps SFP/eSFP Electrical Transceiver (Commercial) 1 Gbps BIDI ESFP Optical Transceiver (Commercial)
NEDDooEM4Fo1	4 Channels GE/FE Optical Interface Board	155 Mbps SFP/eSFP Optical Transceiver (Commercial) 1 Gbps SFP/eSFP Optical Transceiver (Commercial) 1 Gbps SFP/eSFP Electrical Transceiver (Commercial) 1 Gbps BIDI ESFP Optical Transceiver (Commercial)
NEDDoooEG4oo	4 Channels FE/GE Adaptive Optical Interface Board	155 Mbps SFP/eSFP Optical Transceiver (Commercial) 1 Gbps SFP/eSFP Optical Transceiver (Commercial) 1 Gbps SFP/eSFP Electrical Transceiver (Commercial) 1 Gbps BIDI ESFP Optical Transceiver (Commercial)
NEDDooEM4To1	4 Channels GE/FE Electrical Interface Board	No need Optical/Electrical Transceiver (there are Electrical Transceiver Integrated in Interface)
NEDDooEG4Too	4 Channels FE/GE Adaptive Electronic Interface Board	No need Optical/Electrical Transceiver (there are Electrical Transceiver Integrated in Interface)
NEDDoooEG2oo	2 Channels GE Optical Interface Board	155 Mbps SFP/eSFP Optical Transceiver (Commercial) 1 Gbps SFP/eSFP Optical Transceiver (Commercial) 1 Gbps SFP/eSFP Electrical Transceiver (Commercial) 1 Gbps BIDI ESFP Optical Transceiver (Commercial)
NEDDooEF8Foo	8 Channels Fast Ethernet Optical Interface Board	155 Mbps SFP/eSFP Optical Transceiver (Commercial) 1 Gbps SFP/eSFP Optical Transceiver (Commercial) 1 Gbps SFP/eSFP Electrical Transceiver (Commercial) 1 Gbps BIDI ESFP Optical Transceiver (Commercial)

Order name	Description	Compatible Optical/Electrical Transceiver
NEDDooEF8Too	8 Channels Fast Ethernet Electric Interface Board	No need Optical/Electrical Transceiver (there are Electrical Transceiver Integrated in Interface)

## Product Specifications

Table 3. NEDDooEX4Soo - 4 Channel 10GE Optical Interface Board(SFP+)

Item	Description
Silkscreen print	D1EX4S
Chassis and slot	NEo8E-S6E: slot 1 to slot 2
Dimensions	Height: 19.8mm (0.78 in.) Width: 193.8mm (7.63 in.) Depth: 209.3mm (8.24 in.)
Weight	0.7 kg (1.43 lb)
Typical power consumption	30.21 W
Heat dissipation	98BTU/hour
Connector type	SFP+
Minimum software release	NEo8E-S6E : V300R003C00
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 4. NEDDoooEX2So - 2 Channels 10GE Base LAN/WAN SFP+ Optical Interface Board

Item	Description
Silkscreen print	D2EX2S
Chassis and slot	NEo8E-S6: slot 1 to slot 2
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)
Weight	0.60 kg (1.32 lb)
Typical power consumption	10.6 W
Heat dissipation	34.4 BTU/hour
Connector type	SFP+
Clock synchronous	Supports physical-layer clock synchronization (synchronous Ethernet).


Item	Description
	Supports IEEE 1588v2. Supports IEEE 1588 ACR.  <b>NOTE</b> If the SFP interface houses an electrical module, the interface does not support synchronous Ethernet or IEEE 1588v2.
Minimum software release	NEo8E-S6 V200R005C00
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 5. NEDD00EX2S00 - 2 Channel 10GE Optical Interface Board(SFP+)


Item	Description
Silkscreen print	K1EX2S
Chassis and slot	NEo8E-S6E: slot 1 to slot 6
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)
Weight	0.60 kg (1.32 lb)
Typical power consumption	12.10 W
Heat dissipation	39.3 BTU/hour
Connector type	SFP+
Clock synchronous	Supports physical-layer clock synchronization (synchronous Ethernet). Supports IEEE 1588v2.  <b>NOTE</b> If the SFP interface houses an electrical module, the interface does not support synchronous Ethernet or IEEE 1588v2.
Minimum software release	NEo8E-S6E V300R002C00
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 6. NEDD000EX1S0 - 1 Channel 10GE Base LAN/WAN SFP+ Optical Interface Board

Item	Description
Silkscreen print	D2EX1S
Chassis and slot	NEo8E-S6: slot 1 to slot 6


Item	Description
	NEo8E-S6E: slot 1 to slot 6
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)
Weight	0.35 kg (0.77 lb)
Typical power consumption	6.2 W
Heat dissipation	20.1 BTU/hour
Connector type	SFP+
Clock synchronous	Supports physical-layer clock synchronization (synchronous Ethernet). Supports IEEE 1588v2. Supports IEEE 1588 ACR.  <b>NOTE</b> If the SFP interface houses an electrical module, the interface does not support synchronous Ethernet or IEEE 1588v2.
Minimum software release	NEo8E-S6E V300R002C00 NEo8E-S6 V200R005C00
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 7. NEDDooEM8Fo1 -8 Channels GE/FE Optical Interface Board

Item	Description
Silkscreen print	D2EM8F
Chassis and slot	NEo8E-S6E: slot 1 to slot 6 NEo8E-S6: slot 1 to slot 6
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)
Weight	0.39 kg (0.86 lb)
Typical power consumption	16.6 W
Heat dissipation	53.9 BTU/hour
Connector type	SFP/eSFP
Clock synchronous	Supports physical-layer clock synchronization (synchronous Ethernet). Supports IEEE 1588v2. Supports IEEE 1588 ACR.


Item	Description
	 <b>NOTE</b> If the SFP interface houses an electrical module, the interface does not support synchronous Ethernet or IEEE 1588v2.
Minimum software release	NEo8E-S6E V300R002Coo NEo8E-S6 V200R005Coo
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 8. NEDDooEM8To1 -8 Channels GE/FE Electrical Interface Board


Item	Description
Silkscreen print	D2EM8T
Chassis and slot	NEo8E-S6E: slot 1 to slot 6 NEo8E-S6: slot 1 to slot 6
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)
Weight	0.39 kg (0.86 lb)
Typical power consumption	11.7 W
Heat dissipation	38.0 BTU/hour
Connector type	RJ-45
Clock synchronous	Supports physical-layer clock synchronization (synchronous Ethernet). Supports IEEE 1588v2. Supports IEEE 1588 ACR.  <b>NOTE</b> When using an electrical interface at 10 Mbit/s, the interface does not support synchronous Ethernet clock or IEEE 1588v2.
Minimum software release	NEo8E-S6E V300R002Coo NEo8E-S6 V200R005Coo
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.



Table 9. NEDDooEM8Moo - 4 Channels GE/FE Optical Interface and 4 Channels GE/FE Electric Interface Board


Item	Description
Silkscreen print	D2EM8M
Chassis and slot	NEo8E-S6: slot 1 to slot 2
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)
Weight	0.40 kg (0.88 lb)
Typical power consumption	12.6 W
Heat dissipation	40.9 BTU/hour
Connector type	SFP/eSFP RJ-45
Clock synchronous	Supports physical-layer clock synchronization (synchronous Ethernet). Supports IEEE 1588v2. Supports IEEE 1588 ACR.  <b>NOTE</b> When using an electrical interface at 10 Mbit/s, the interface does not support synchronous Ethernet clock or IEEE 1588v2. If the SFP interface houses an electrical module, the interface does not support synchronous Ethernet or IEEE 1588v2.
Minimum software release	NEo8E-S6 V200R005C00
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 10. NEDDooEM4Fo1 - 4 Channels GE/FE Optical Interface Board

Item	Description
Silkscreen print	D2EM4F
Chassis and slot	NEo8E-S6E: slot 1 to slot 6 NEo8E-S6: slot 1 to slot 6
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)
Weight	0.36 kg (0.79 lb)
Typical power consumption	7.7 W
Heat dissipation	25.0 BTU/hour


Item	Description
Connector type	SFP/eSFP
Clock synchronous	Supports physical-layer clock synchronization (synchronous Ethernet). Supports IEEE 1588v2. Supports IEEE 1588 ACR.  <b>NOTE</b> If the SFP interface houses an electrical module, the interface does not support synchronous Ethernet or IEEE 1588v2..
Minimum software release	NEo8E-S6 V300R002Coo NEo8E-S6 V200R005Coo
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 11. NEDD000EG400 - 4 Channels FE/GE Adaptive Optical Interface Board


Item	Description
Silkscreen print	EG4F
Chassis and slot	NEo5E-S2: slot 3 to slot 4
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)
Weight	0.50 kg (1.10 lb)
Typical power consumption	13.2 W
Heat dissipation	42.8 BTU/hour
Connector type	SFP/eSFP
Clock synchronous	Supports physical-layer clock synchronization (synchronous Ethernet). Supports IEEE 1588v2. Supports IEEE 1588 ACR.  <b>NOTE</b> If the SFP interface houses an electrical module, the interface does not support synchronous Ethernet or IEEE 1588v2.
Minimum software release	NEo5E-S2 V200R005Coo
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 12. NEDDooEM4To1 - 4 Channels GE/FE Electrical Interface Board


Item	Description
Silkscreen print	D2EM4T
Chassis and slot	NEo8E-S6E: slot 1 to slot 6 NEo8E-S6: slot 1 to slot 6
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)
Weight	0.36 kg (0.79 lb)
Typical power consumption	6.8 W
Heat dissipation	22.1 BTU/hour
Connector type	RJ-45
Clock synchronous	Supports physical-layer clock synchronization (synchronous Ethernet). Supports IEEE 1588v2. Supports IEEE 1588 ACR.  <b>NOTE</b> When using an electrical interface at 10 Mbit/s, the interface does not support synchronous Ethernet clock or IEEE 1588v2.
Minimum software release	NEo8E-S6E V300R002C00 NEo8E-S6 V200R005C00
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 13. NEDDooEG4Too - 4 Channels FE/GE Adaptive Electronic Interface Board

Item	Description
Silkscreen print	D1EG4T
Chassis and slot	NEo5E-S2: slot 3 to slot 4
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)
Weight	0.50 kg (1.10 lb)
Typical power consumption	10.0 W
Heat dissipation	32.4 BTU/hour
Connector type	RJ-45


Item	Description
Clock synchronous	<p>Supports physical-layer clock synchronization (synchronous Ethernet). Supports IEEE 1588v2. Supports IEEE 1588 ACR.</p> <p> <b>NOTE</b> When using an electrical interface at 10 Mbit/s, the interface does not support synchronous Ethernet clock or IEEE 1588v2.</p>
Minimum software release	NEo5E-S2 V200R005C00
Reliability and availability	<p>Supports the hot swappable function. Detects the temperature and voltage of the board.</p>

Table 14. NEDD000EG200 - 2 Channels GE Optical Interface Board


Item	Description
Silkscreen print	EG2
Chassis and slot	NEo5E-S2: slot 3 to slot 4
Dimensions	<p>Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)</p>
Weight	0.52 kg (1.15 lb)
Typical power consumption	6.1 W
Heat dissipation	19.2 BTU/hour
Connector type	SFP/eSFP
Clock synchronous	<p>Supports physical-layer clock synchronization (synchronous Ethernet). Supports IEEE 1588v2. Supports IEEE 1588 ACR.</p> <p> <b>NOTE</b> If the SFP interface houses an electrical module, the interface does not support synchronous Ethernet or IEEE 1588v2.</p>
Minimum software release	NEo5E-S2 V200R005C00
Reliability and availability	<p>Supports the hot swappable function. Detects the temperature and voltage of the board.</p>

Table 15. NEDDooEF8Foo - 8 Channels Fast Ethernet Optical Interface Board



Item	Description
Silkscreen print	EF8F
Chassis and slot	NEo5E-S2: slot 3 to slot 4
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)
Weight	0.55 kg (1.21 lb)
Typical power consumption	12.9 W
Heat dissipation	49.9 BTU/hour
Connector type	SFP/eSFP
Clock synchronous	Supports physical-layer clock synchronization (synchronous Ethernet). Supports IEEE 1588v2. Supports IEEE 1588 ACR.  <b>NOTE</b> If the SFP interface houses an electrical module, the interface does not support synchronous Ethernet or IEEE 1588v2.
Minimum software release	NEo5E-S2 V200R005C00
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 16. NEDDooEF8Too - 8 Channels Fast Ethernet Electric Interface Board

Item	Description
Silkscreen print	EF8T
Chassis and slot	NEo5E-S2: slot 3 to slot 4
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.8mm (7.63 in.) Depth: 225.75mm (8.89 in.)
Weight	0.53 kg (1.17 lb)
Typical power consumption	9.0 W
Heat dissipation	29.2 BTU/hour
Connector type	RJ-45
Clock synchronous	Supports physical-layer clock synchronization (synchronous Ethernet). Supports IEEE 1588v2.

Item	Description
	Supports IEEE 1588 ACR.  <b>NOTE</b> When using an electrical interface at 10 Mbit/s, the interface does not support synchronous Ethernet clock or IEEE 1588v2.
Minimum software release	NEo5E-S2 V200R005C00
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

## For More Information

For more information about the Huawei NEo8E&NEo5E 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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