

# NE08E&NE05E Series Low-speed Service Interface Boards



## Product Overview

The Huawei® NE08E&NE05E series routers support E1/T1, STM-1/POS and PCM service low-speed interface boards (as shown in the Figure 1, Figure 2 and Figure 3).

Figure 1. STM-1/POS Service Interface Boards



4 Channels OC-3/STM-1 POS Optical Interface Board  
NEDD000PQ100



4 Channels Channelized OC-3c/STM-1c POS Optical Interface Board  
NEDD00CQ1B00

Figure 2. E1 Line Service Interface Boards



16 Channels E1 Interface Board(75ohm)  
NEDD16E17502



16 Channels E1 Interface Board(120ohm)  
NEDD16E11202



32 Channels E1 Interface Board(75ohm)  
NEDD32E17501



32 Channels E1 Interface Board(120ohm)  
NEDD32E11201

Figure 3. PCM Line Service Interface Boards



4 Channels C37.94 Optical Interface and 4 Channels  
CoDir64K Electric Interface Board  
NEDD01MP8A00



8-Channel V.35/X.21/V.24 Board  
NEDD001SA800



4-Channel FXS/FXO+2-Channel E&M+2-Channel  
RS232+2-Channel RS485 Board  
NEDD01MPAA00

## Product Features

Table 1. Features of the Low-Speed Interface Boards on NE08E&NE05E Series Routers

Service Interface Boards	Features
4 Channels Channelized OC-3c/STM-1c POS Optical Interface Board	Uses 155 M SFP/eSFP optical modules, provides four 155-Mbps CPOS interface, and supports channelization., and supports hot swapping.
4 Channels OC-3/STM-1 POS Optical Interface Board	Uses 155 M SFP/eSFP optical modules, provides four 155-Mbps POS interface. The 4 Channels OC-3/STM-1 POS optical interface board transmits 63-channel E1 signals through 4-channel 155M SDH line, and supports hot swapping.
32 Channels E1 Interface Board(75ohm)	Is hot-swappable and provides up to 32 E1 interfaces. The service type of every interface can be configured flexibly.
32 Channels E1 Interface Board(120 ohm)	Is hot-swappable and provides up to 32 E1 interfaces. The service type of every interface can be configured flexibly.
16 Channels E1 Interface Board(75ohm)	Is hot-swappable and provides up to 16 E1 interfaces. The service type of every interface can be configured flexibly.
16 Channels E1 Interface Board(120 ohm)	Is hot-swappable and provides up to 16 E1 interfaces. The service type of every interface can be configured flexibly.
4-Channel FXS/FXO+2-Channel E&M+2-Channel RS232+2-Channel RS485 Board	Receives RS-232, RS-482, E&M, FXS, and FXO services and processes these services with the control board.
8-Channel V.35/X.21/V.24 Board	Receives 8 channels of synchronous or asynchronous services and processes these services with the control board.
4 Channels C37.94 Optical Interface and 4 Channels CoDir64K Electric Interface Board	Receives C37.94 and 64 kbit/s codirectional data services and processes these services with the control board.

## Product Compatibility

Table 2 and Table 3 show the compatibility information for the low-speed interface boards supported in Huawei NE08E&NE05E Series routers.

Table 2. Low-Speed Interface Boards Compatible Chassis ("●" indicates "support", and "-" indicates "not support")

Order Name	BOM Number	Board Name	Description	V300R003	V200R006C20	
				NE08E-S6E	NE08E-S6	NE05E-S2
NEDD00CQ1B00	03056459	NED2CQ1B	4 Channels Channelized OC-3c/STM-1c POS Optical Interface Board	●	●	-

Order Name	BOM Number	Board Name	Description	V300R003	V200R006C20	
				NE08E-S6E	NE08E-S6	NE05E-S2
NEDD000PQ100	03056460	NED2PQ1	4 Channels OC-3/STM-1 POS Optical Interface Board	-	•	-
NEDD16E17502	03056461	NED3ML1A	16 Channels E1 Interface Board(75ohm)	•	•	-
NEDD16E17501	03056468	NED2ML1A	16 Channels E1 Interface Board(75ohm)	-	-	•
NEDD32E17501	03057266	NED2MD1A	32 Channels E1 Interface Board(75ohm)	•	-	-
NEDD16E11202	03056462	NED3ML1B	16 Channels E1 Interface Board(120ohm)	•	•	-
NEDD16E11201	03056469	NED2ML1B	16 Channels E1 Interface Board(120ohm)	-	-	•
NEDD32E11201	03057267	NED2MD1B	32 Channels E1 Interface Board(120ohm)	•	-	-
NEDD01MPAA00	03056725	NED1MPAA	4-Channel FXS/FXO+2-Channel E&M+2-Channel RS232+2-Channel RS485 Board	•	•	•
NEDD001SA800	03056726	NED1SA8	8-Channel V.35/X.21/V.24 Board	•	•	•
NEDD01MP8A00	03056886	NED1MP8A	4 Channels C37.94 Optical Interface and 4 Channels CoDir64K Electric Interface Board	•	•	•

Table 3. Low-Speed Interface Boards Compatible Optical/Electrical Transceiver

Order name	Description	Compatible Optical/Electrical Transceiver
NEDD00CQ1B00	4 Channels Channelized OC-3c/STM-1c POS Optical Interface Board	155 Mbps SFP/eSFP optical module (Commercial)
NEDD000PQ100	4 Channels OC-3/STM-1 POS Optical Interface Board	155 Mbps SFP/eSFP optical module (Commercial)
NEDD16E17502	16 Channels E1 Interface Board(75ohm)	NA
NEDD16E17501	16 Channels E1 Interface Board(75ohm)	NA
NEDD32E17501	32 Channels E1 Interface Board(75ohm)	NA
NEDD16E11202	16 Channels E1 Interface Board(120ohm)	NA
NEDD16E11201	16 Channels E1 Interface Board(120ohm)	NA
NEDD32E11201	32 Channels E1 Interface Board(120ohm)	NA

Order name	Description	Compatible Optical/Electrical Transceiver
NEDD01MPAA00	4-Channel FXS/FXO+2-Channel E&M+2-Channel RS232+2-Channel RS485 Board	NA
NEDD001SA800	8-Channel V.35/X.21/V.24 Board	NA
NEDD01MP8A00	4 Channels C37.94 Optical Interface and 4 Channels CoDir64K Electric Interface Board	2 Mbps SFP/eSFP optical module (Commercial, order name is OSC002B01, BOM number is 34060588)

## Product Specifications

Table 4 to Table 14 list the specifications of the low-speed low-speed interface boards in NE08E&NE05E Series Routers.

Table 4. NEDD00CQ1B00- 4 Channels Channelized OC-3c/STM-1c POS Optical Interface Board

Item	Description
Silkscreen print	D2CQ1B
Chassis and slot	NE08E-S6: slot 1 to slot 6 NE08E-S6E: slot 1 to slot 6
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.80mm (7.63 in.) Depth:225.75mm (8.89 in.)
Weight	0.47 kg (1.04 lb)
Typical power consumption	11.5 W
Heat dissipation	37.311 BTU/hour
Connector type	SFP
Minimum software release	NE08E-S6 V200R005C00 NE08E-S6E V300R002C00
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 5. NEDD00PQ100- 4 Channels OC-3/STM-1 POS Optical Interface Board

Item	Description
Silkscreen print	D2PQ1
Chassis and slot	NE08E-S6: slot 1 to slot 6

Item	Description
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.80mm (7.63 in.) Depth:225.75mm (8.89 in.)
Weight	0.47 kg (1.04 lb)
Typical power consumption	11.5 W
Heat dissipation	37.311 BTU/hour
Connector type	SFP
Minimum software release	NE08E-S6 V200R005C00
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 6. NEDD16E17502 - 16 Channels E1 Interface Board(75ohm)

Item	Description	
Silkscreen print	D3ML1A	
Chassis and slot	NE08E-S6E: slot 1 to slot 6 NE08E-S6: slot 1 to slot 6	
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.80mm (7.63 in.) Depth:225.75mm (8.89 in.)	
Weight	0.44 kg ( 0.97 lb)	
Typical power consumption	9.5 W	
Heat dissipation	30.822 BTU/hour	
Connector type	Anea96	
	Interface type	E1/CE1
	Nominal bit rate	2.048 Mbps
	Interface impedance	75ohm
	Working mode	Full-duplex
	Interface code	HDB3 (unconfigurable)
	Input jitter tolerance	Compliant with ITU-T G.823
	Output jitter	Compliant with ITU-T G.823
Minimum software release	NE08E-S6E V300R002C00 NE08E-S6 V200R005C00	

Item	Description
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.

Table 7. NEDD16E17501 - 16 Channels E1 Interface Board(75ohm)

Item	Description														
Silkscreen print	D2ML1A														
Chassis and slot	NE05E-S2: slot 3 to slot 4														
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.80mm (7.63 in.) Depth:225.75mm (8.89 in.)														
Weight	0.44 kg ( 0.97 lb)														
Typical power consumption	9.5 W														
Heat dissipation	30.822 BTU/hour														
Connector type	Anea96														
	<table border="1"> <tbody> <tr> <td>Interface type</td> <td>E1/CE1</td> </tr> <tr> <td>Nominal bit rate</td> <td>2.048 Mbps</td> </tr> <tr> <td>Interface impedance</td> <td>75ohm</td> </tr> <tr> <td>Working mode</td> <td>Full-duplex</td> </tr> <tr> <td>Interface code</td> <td>HDB3 (unconfigurable)</td> </tr> <tr> <td>Input jitter tolerance</td> <td>Compliant with ITU-T G.823</td> </tr> <tr> <td>Output jitter</td> <td>Compliant with ITU-T G.823</td> </tr> </tbody> </table>	Interface type	E1/CE1	Nominal bit rate	2.048 Mbps	Interface impedance	75ohm	Working mode	Full-duplex	Interface code	HDB3 (unconfigurable)	Input jitter tolerance	Compliant with ITU-T G.823	Output jitter	Compliant with ITU-T G.823
Interface type	E1/CE1														
Nominal bit rate	2.048 Mbps														
Interface impedance	75ohm														
Working mode	Full-duplex														
Interface code	HDB3 (unconfigurable)														
Input jitter tolerance	Compliant with ITU-T G.823														
Output jitter	Compliant with ITU-T G.823														
Minimum software release	NE05E-S2 V200R005C00														
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.														

Table 8. NEDD32E17501 - 32 Channels E1 Interface Board(75ohm)

Item	Description
Silkscreen print	D2MD1A
Chassis and slot	NE08E-S6E: slot 1 to slot 6
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.80mm (7.63 in.)

Item	Description	
	Depth:225.75mm (8.89 in.)	
Weight	0.49 kg (1.08 lb)	
Typical power consumption	12.1 W	
Heat dissipation	39.257 BTU/hour	
Connector type	Anea96	
	Interface type	E1/CE1
	Nominal bit rate	2.048 Mbps
	Interface impedance	75ohm
	Working mode	Full-duplex
	Interface code	HDB3 (unconfigurable)
	Input jitter tolerance	Compliant with ITU-T G.823
	Output jitter	Compliant with ITU-T G.823
Minimum software release	NE08E-S6E V300R002C00	
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.	

Table 9. NEDD16E11202 - 16 Channels E1 Interface Board(120 ohm)

Item	Description	
Silkscreen print	D3ML1B	
Chassis and slot	NE08E-S6E: slot 1 to slot 6 NE08E-S6: slot 1 to slot 6	
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.80mm (7.63 in.) Depth:225.75mm (8.89 in.)	
Weight	0.44 kg (0.97 lb)	
Typical power consumption	9.5 W	
Heat dissipation	30.822 BTU/hour	
Connector type	Anea96	
	Interface type	E1/CE1
	Nominal bit rate	2.048 Mbps
	Interface impedance	120 ohm

Item	Description	
	Working mode	Full-duplex
	Interface code	HDB3 (unconfigurable)
	Input jitter tolerance	Compliant with ITU-T G.823
	Output jitter	Compliant with ITU-T G.823
Minimum software release	NE08E-S6E V300R002C00 NE08E-S6 V200R005C00	
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.	

Table 10. NEDD16E11201 - 16 Channels E1 Interface Board(120 ohm)

Item	Description	
Silkscreen print	D2ML1B	
Chassis and slot	NE05E-S2: slot 3 to slot 4	
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.80mm (7.63 in.) Depth:225.75mm (8.89 in.)	
Weight	0.44 kg (0.97 lb)	
Typical power consumption	9.5 W	
Heat dissipation	30.822 BTU/hour	
Connector type	Anea96	
	Interface type	E1/CE1
	Nominal bit rate	2.048 Mbps
	Interface impedance	120 ohm
	Working mode	Full-duplex
	Interface code	HDB3 (unconfigurable)
	Input jitter tolerance	Compliant with ITU-T G.823
	Output jitter	Compliant with ITU-T G.823
Minimum software release	NE05E-S2 V200R005C00	
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.	



Table 11. NEDD32E11201 - 32 Channels E1 Interface Board(120 ohm)

Item	Description	
Silkscreen print	D2MD1B	
Chassis and slot	NE08E-S6E: slot 1 to slot 6	
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.80mm (7.63 in.) Depth:225.75mm (8.89 in.)	
Weight	0.49 kg (1.08 lb)	
Typical power consumption	12.1 W	
Heat dissipation	39.257 BTU/hour	
Connector type	Anea96	
	Interface type	E1/CE1
	Nominal bit rate	2.048 Mbps
	Interface impedance	120 ohm
	Working mode	Full-duplex
	Interface code	HDB3 (unconfigurable)
	Input jitter tolerance	Compliant with ITU-T G.823
	Output jitter	Compliant with ITU-T G.823
Minimum software release	NE08E-S6E V300R002C00	
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.	

Table 12. NEDD01MPAA00 - 4-Channel FXS/FXO+2-Channel E&amp;M+2-Channel RS232+2-Channel RS485 Board

Item	Description
Silkscreen print	D1MPAA
Chassis and slot	NE05E-S2: slot 3 to slot 4 NE08E-S6: slot 1 to slot 6 NE08E-S6E: slot 1 to slot 6
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.80mm (7.63 in.) Depth:225.75mm (8.89 in.)
Weight	0.49 kg (1.08 lb)
Typical power consumption	12.0 W

Item	Description	
Heat dissipation	38.933 BTU/hour	
Interface type	Interface function	Interface rate
RS-232 interface	Supports only the asynchronous mode. Supports the sub-rate multiplexing protocol X.50.	600, 1200, 2400, 4800, 9600, 19200, 38400, 48000
RS-485/ RS-422 interface	Supports RS485 (half-duplex) or RS422/RS485 (full-duplex). Supports only the asynchronous mode. Supports the sub-rate multiplexing protocol X.50 in asynchronous mode.	600, 1200, 2400, 4800, 9600, 19200, 38400, 48000, N*64k N<=31
E&M interface	Supports 2-wire and 4-wire working modes. Supports E&M relay.	64k
FXSO interface	Can function as an FXS or FXO interface. An FXS interface supports analog phone and fax machine access. An FXO support public switched telephone network (PSTN) access. Supports Z interface extension Supports the hotline phone function	64k
Connector type	RS-232 interface: RJ-45 RS-485/ RS-422 interface: RJ-45 E&M interface: RJ-45 FXSO interface: RJ-11	
Minimum software release	NE05E-S2 V200R005C00 NE08E-S6 V200R005C00 NE08E-S6E V300R003C00	
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.	

Table 13. NEDD001SA800 - 8-Channel V.35/X.21/V.24 Board

Item	Description
Silkscreen print	D1SA8
Chassis and slot	NE05E-S2: slot 3 to slot 4 NE08E-S6: slot 1 to slot 6 NE08E-S6E: slot 1 to slot 6
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.80mm (7.63 in.) Depth:225.75mm (8.89 in.)

Item	Description	
Weight	0.48 kg (1.06 lb)	
Typical power consumption	18.0 W	
Heat dissipation	58.400 BTU/hour	
Interface type	Interface function	Interface rate
X.21 interface	Supports synchronous and asynchronous modes. Supports the sub-rate multiplexing protocol X.50 in asynchronous mode.	Synchronous modes: N*64k N<=31 Asynchronous modes: 600, 1200, 2400, 4800, 9600, 19200, 38400, 48000
V.24 interface	Supports synchronous and asynchronous modes. Supports the sub-rate multiplexing protocol X.50 in asynchronous mode.	Synchronous modes: 64k, 128k Asynchronous modes: 600, 1200, 2400, 4800, 9600, 19200, 38400, 48000
V.35 interface	Supports the synchronous mode.	N*64k N<=31
Connector type	DB28	
Minimum software release	NE05E-S2 V200R005C00 NE08E-S6 V200R005C00 NE08E-S6E V300R003C00	
Reliability and availability	Supports the hot swappable function. Detects the temperature and voltage of the board.	

Table 14. NEDD01MP8A00 - 4 Channels C37.94 Optical Interface and 4 Channels CoDir64K Electric Interface Board

Item	Description	
Silkscreen print	D1MP8A	
Chassis and slot	NE05E-S2: slot 3 to slot 4 NE08E-S6: slot 1 to slot 6 NE08E-S6E: slot 1 to slot 6	
Dimensions	Height: 20.32mm (0.80 in.) Width: 193.80mm (7.63 in.) Depth:225.75mm (8.89 in.)	
Weight	0.48 kg (1.06 lb)	
Typical power consumption	6.2 W	
Heat dissipation	20.115 BTU/hour	
Interface type	Interface function	Interface rate
C37.94 interface	Supports 2 Mbit/s optical modules. Transparently transmits data services through the PSN.	2Mbit/s

Item	Description
64K co-directional interface	Transparently transmits data services through the PSN. 64Kbit/s
Connector type	C37.94 interface: SFP 64K co-directional interface: RJ-45
Minimum software release	NE05E-S2 V200R005C00 NE08E-S6 V200R005C00 NE08E-S6E V300R003C00
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 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](mailto:support_e@huawei.com)

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