

NE20E-S Series Low-speed Line Cards



Product Overview

The Huawei® NE20E-S series universal service routers support POS, CPOS and E1 Low-speed line cards.

Figure 1. Low-speed Line Cards



EM4TP



AT6



MPAA



S8A



MP8A



32xE1-75



32xE1-120



16xE1-75



16xE1-120



4xSTM1-cPOS



4xSTM1-POS



2xSTM1/1xSTM4-POS



1xOC3-cPOS



2xSTM1-ATM

Product Compatibility

Table 1. Low-speed Line Cards Compatible Chassis("●" indicates supported items, "-" indicates unsupported items).(1)

BOM	Order Name	Description	NE20E -S4	NE20E -S8	NE20E -S16	NE20 E-S8A	NE20 E-S16 A
03032VRK	CR2D0EM4TP 10	4 Channels GE/FE PoE Electrical Interface Board	●	●	●	●	●
03032VFA	CR2D000EM8 90	6 Channels E&M Interface Board	●	●	●	●	●
03032TGP	CR2D00MPAA 90	4-Channel FXS/FXO+2-Channel E&M+2-Channel RS232+2-Channel RS485 Board	●	●	●	●	●
03032TGR	CR2D000SA8 90	8-Channel V.35/X.21/V.24 Board	●	●	●	●	●
03032TGS	CR2D00MP8A 90	4 Channels C37.94 Optical Interface and 4 Channels CoDir64K Electric Interface Board	●	●	●	●	●
03030QCQ	CR2D000IE11 0	32-Port E1 Physical Interface Card(75ohm)	●	●	●	●	●
03030QCP	CR2D000IE11 1	32-Port E1 Physical Interface Card(120ohm)	●	●	●	●	●
03030RFA	CR2D000DE1 10	16-Port E1 Physical Interface Card(75ohm)	●	●	●	●	●
03030REY	CR2D000DE1 11	16-Port E1 Physical Interface Card(120ohm)	●	●	●	●	●

BOM	Order Name	Description	NE20E-S4	NE20E-S8	NE20E-S16	NE20E-S8A	NE20E-S16A
03030QCN	CR2D00C4CF11	4-Port Channelized STM-1c POS-SFP Physical Interface Card(PIC)	●	●	●	●	●
03030RET	CR2D00P4CF11	4-Port OC-3c/STM-1c POS-SFP Physical Interface Card	●	●	●	●	●
03031DKA	CR2DP2C1HF11	2-Port OC-3c/STM-1c (or 1-Port OC-12c/STM-4C) POS-SFP Physical Interface Card	●	●	●	●	●
03031DKB	CR2D00C1CF11	1-Port Channelized STM-1c POS-SFP Physical Interface Card	●	●	●	●	●
03031WDR	CR2D00A2CF10	2-Port OC-3c/STM-1c ATM-SFP Physical Interface Card	●	●	●	●	●

Table 2. Low-speed Line Cards Compatible Chassis("●" indicates supported items, "-" indicates unsupported items).(2)

BOM	Order Name	Description	NE20E-S2E	NE20E-S2F
03032VRK	CR2D0EM4TP10	4 Channels GE/FE PoE Electrical Interface Board	●	●
03032TGP	CR2D00MPAA90	4-Channel FXS/FXO+2-Channel E&M+2-Channel RS232+2-Channel RS485 Board	●	●
03032TGR	CR2D000SA890	8-Channel V.35/X.21/V.24 Board	●	●
03032TGS	CR2D00MP8A90	4 Channels C37.94 Optical Interface and 4 Channels CoDir64K Electric Interface Board	●	●
03030QCQ	CR2D000IE110	32-Port E1 Physical Interface Card(75ohm)	●	●
03030QCP	CR2D000IE111	32-Port E1 Physical Interface Card(120ohm)	●	●
03030RFA	CR2D000DE110	16-Port E1 Physical Interface Card(75ohm)	●	●
03030REY	CR2D000DE111	16-Port E1 Physical Interface Card(120ohm)	●	●
03030QCN	CR2D00C4CF11	4-Port Channelized STM-1c POS-SFP Physical Interface Card(PIC)	●	●
03030RET	CR2D00P4CF11	4-Port OC-3c/STM-1c POS-SFP Physical Interface Card	●	●

BOM	Order Name	Description	NE20E-S2E	NE20E-S2F
03031DKA	CR2DP2C1HF 11	2-Port OC-3c/STM-1c (or 1-Port OC-12c/STM-4C) POS-SFP Physical Interface Card	•	•
03031DKB	CR2D00C1CF 11	1-Port Channelized STM-1c POS-SFP Physical Interface Card	•	•
03031WDR	CR2D00A2CF 10	2-Port OC-3c/STM-1c ATM-SFP Physical Interface Card	•	•

Product Specifications

Table 3. 4 Channels GE/FE PoE Electrical Interface Board Specifications

Item	Description
Order Name	CR2D0EM4TP10
Silkscreen	EM4TP
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.45 kg (0.99 lb)
Typical power consumption	11.6 W
Typical heat dissipation	37.6 BTU/hour
Ambient temperature	Long terms: -40°C to 65°C (-40°F to 149°F)
Connector type	Network cable
Reliability and availability	Support for hot swap.

Table 4. 6 Channels E&M Interface Board Specifications

Item	Description
Order Name	CR2D000EM890
Silkscreen	AT6
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.45 kg (0.99 lb)
Typical power consumption	10.0 W
Typical heat dissipation	32.4 BTU/hour

Item	Description
Ambient temperature	Long terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	Telephone interface
Reliability and availability	Support for hot swap.

Table 5. 4-Channel FXS/FXO+2-Channel E&M+2-Channel RS232+2-Channel RS485 Board Specifications

Item	Description
Order Name	CR2D00MPAA90
Silkscreen	MPAA
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.6 kg (1.32 lb)
Typical power consumption	12.0 W
Typical heat dissipation	38.9 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	Telephone interface
Reliability and availability	Support for hot swap.

Table 6. 8-Channel V.35/X.21/V.24 Board Specifications

Item	Description
Order Name	CR2D000SA890
Silkscreen	SA8
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.6 kg (1.32 lb)
Typical power consumption	18.0 W
Typical heat dissipation	58.4 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	DB28 serial interface
Reliability and availability	Support for hot swap.

Table 7. 4 Channels C37.94 Optical Interface and 4 Channels CoDir64K Electric Interface Board Specifications

Item	Description
Order Name	CR2D00MP8A90
Silkscreen	MP8A
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	6.0 W
Typical heat dissipation	19.5 BTU/hour
Ambient temperature	Long terms: 0 °C to 45 °C (32°F to 113°F) Short terms: -5 °C to 55 °C (23°F to 131°F)
Connector type	RJ45
Working mode	Full-duplex
Reliability and availability	Support for hot swap.

Table 8. 32-Port E1 Physical Interface Card(75ohm) Specifications

Item	Description
Order Name	CR2D000IE110
Silkscreen	32xE1-75
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	13.5 W
Typical heat dissipation	43.8 BTU/hour
Ambient temperature	Long terms: -40 °C to 65 °C (-40°F to 149°F)
Connector type	DB32
Working mode	Full-duplex
Frame format	Non-framed, CRC4, and NO-CRC4
Reliability and availability	Support for hot swap

Table 9. 32-Port E1 Physical Interface Card(120ohm) Specifications

Item	Description
Order Name	CR2D000IE111

Item	Description
Silkscreen	32xE1-120
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	13.5 W
Typical heat dissipation	43.8 BTU/hour
Ambient temperature	Long terms: -40 °C to 65 °C (-40°F to 149°F)
Connector type	DB32
Working mode	Full-duplex
Frame format	Non-framed, CRC4, and NO-CRC4
Reliability and availability	Support for hot swap

Table 10. 16-Port E1 Physical Interface Card(75ohm) Specifications

Item	Description
Order Name	CR2D000DE110
Silkscreen	16xE1-75
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	9.5 W
Typical heat dissipation	30.7 BTU/hour
Ambient temperature	Long terms: -40 °C to 65 °C (-40°F to 149°F)
Connector type	DB16
Working mode	Full-duplex
Frame format	Non-framed, CRC4, and NO-CRC4
Reliability and availability	Support for hot swap

Table 11. 16-Port E1 Physical Interface Card(120ohm) Specifications

Item	Description
Order Name	CR2D000DE111
Silkscreen	16xE1-120

Item	Description
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	9.5 W
Typical heat dissipation	30.7 BTU/hour
Ambient temperature	Long terms: -40 °C to 65 °C (-40°F to 149°F)
Connector type	DB16
Working mode	Full-duplex
Frame format	Non-framed, CRC4, and NO-CRC4
Reliability and availability	Support for hot swap

Table 12. 4-Port Channelized STM-1c POS-SFP Physical Interface Card(PIC) Specifications

Item	Description
Order Name	CR2D00C4CF11
Silkscreen	4xSTM1-cPOS
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	14.5 W
Typical heat dissipation	47.0 BTU/hour
Ambient temperature	Long terms: -40 °C to 65 °C (-40°F to 149°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	The 155M interface supports SDH; the channelized e1 supports non-framed, CRC4, and NO-CRC4.
Reliability and availability	Support for hot swap.

Table 13. 4-Port OC-3c/STM-1c POS-SFP Physical Interface Card Specifications

Item	Description
Order Name	CR2D00P4CF11
Silkscreen	4xSTM1-POS

Item	Description
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	14.5 W
Typical heat dissipation	47.0 BTU/hour
Ambient temperature	Long terms: -40 °C to 65 °C (-40°F to 149°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	HDLC and PPP
Reliability and availability	Support for hot swap

Table 14. 2-Port OC-3c/STM-1c (or 1-Port OC-12c/STM-4C) POS-SFP Physical Interface Card Specifications

Item	Description
Order Name	CR2DP2C1HF11
Silkscreen	2xSTM1/1xSTM4-POS
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.5 kg (1.10 lb)
Typical power consumption	14.5 W
Typical heat dissipation	47.0 BTU/hour
Ambient temperature	Long terms: -40 °C to 65 °C (-40°F to 149°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	HDLC and PPP
Reliability and availability	Support for hot swap

Table 15. 1-Port Channelized STM-1c POS-SFP Physical Interface Card Specifications

Item	Description
Order Name	CR2D00C1CF11
Silkscreen	1xOC3-cPOS
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)

Item	Description
Weight	0.5 kg (1.10 lb)
Typical power consumption	14.5 W
Typical heat dissipation	47.0 BTU/hour
Ambient temperature	Long terms: -40 °C to 65 °C (-40°F to 149°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	The 155M interface supports SDH; the channelized e1 supports non-framed, CRC4, and NO-CRC4.
Reliability and availability	Support for hot swap.

Table 16. 2-Port OC-3c/STM-1c ATM-SFP Physical Interface Card Specifications

Item	Description
Order Name	CR2D00A2CF10
Silkscreen	2xSTM1-ATM
Dimensions (H x W x D)	19.8 mm x 193.8 mm x 209.3 mm (0.78 in. x 7.63 in. x 8.24 in.)
Weight	0.8 kg (1.76 lb)
Typical power consumption	25.6 W
Typical heat dissipation	83.1 BTU/hour
Ambient temperature	Long terms: -5 °C to 65 °C (23°F to 149°F)
Connector type	SFP
Working mode	Full-duplex
Frame format	SDH and SONET
Reliability and availability	Support for hot swap

For More Information

For more information about the Huawei NE20E-S 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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