NE40E-X3 DC (02351596) Datasheet

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Overview

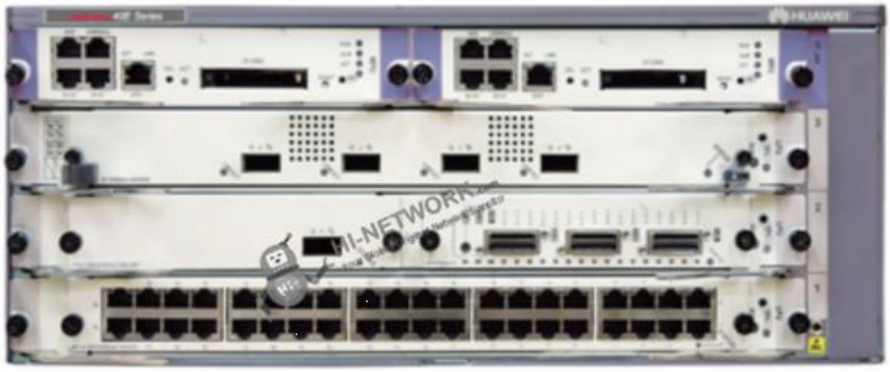
Integrated DC Chassis Components (NE40E-X3)-4U Including Dual DC Power

Quick Specification

Product Code	NE40E-X3 DC
Part Number	02351596
Model	CR52-BKPE-4U-DC
Switching Capacity	1.08 Tbit/s
Forwarding Performance	360 Mbit/s
Number of Slots	5 slots (for 3 LPUs and 2 MPUs)
Dimensions (H x W x D) mm	442 mm x 650 mm x 175 mm (DC, 4U)
Weight in Full Configuration	42 kg (DC)

Product Details:

The Front Panel:



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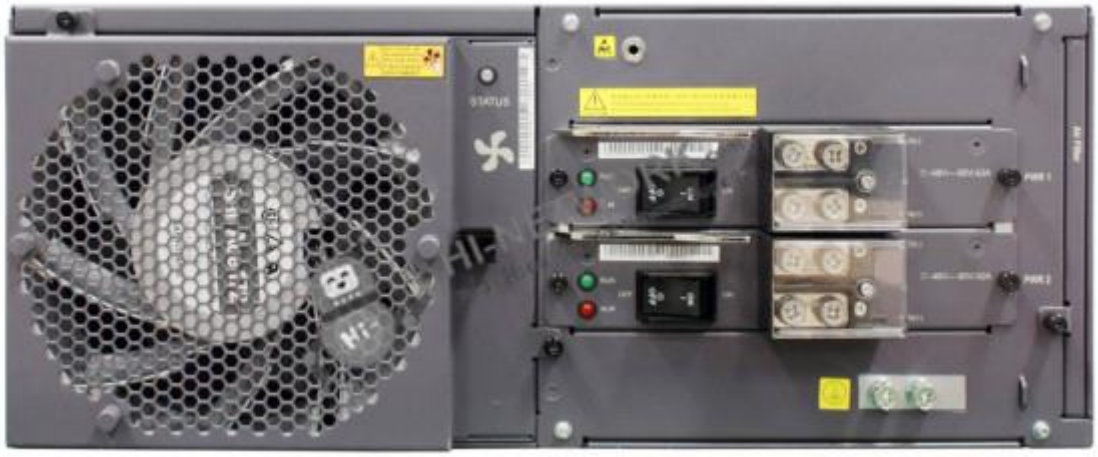
The Back Panel:



Get more information:

Do you have any question about the NE40-X3 DC 02351596?

Contact us now via e-mail: info@hi-network.com

Specific Data Sheet:

Product Name	NE40-X3 DC
Part Number	02351596
Model	CR52-BKPE-4U-DC
First supported version	V800R007C00
Switching Capacity	1.08 Tbit/s
Forwarding Performance	360 Mbit/s
Number of Slots	5 slots (for 3 LPUs and 2 MPUs)
Interface Types	100 GE/40 GE 10 GE- LAN/WAN GE/FE OC-192c/STM-64c POS OC-48c/STM-16c POS OC-12c/STM-4c POS OC-3c/STM-1cPOS Channelized OC-3/STM-1 Channelized STM-4 OC-3c/STM-1c ATM OC-12c/STM-4c ATM

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	E3/T3 CE1/CT1
IPv4	Support for static routing as well as dynamic routing protocols, such as RIP, OSPF, IS-IS, and BGP-4 Line rate forwarding on all interfaces in complex routing environments, for example, when route flapping occurs
IPv6	Various IPv4-to-IPv6 transition technologies: manual tunnel, automatic tunnel, 6to4 tunnel, GRE tunnel, and ISATAP tunnel IPv4 over IPv6 tunnel and IPv6 Provider Edge (6PE) IPv6 static routes and dynamic routing protocols, such as BGP4+, RIPng, OSPFv3, and IS-ISv6 IPv6 neighbor discovery, PMTU discovery, TCP6, ping IPv6, tracert IPv6, socket IPv6, static IPv6 DNS, IPv6 DNS server, TFTP IPv6 client, and IPv6 policy-based routing Internet Control Message Protocol Version 6 (ICMPv6), Management Information Base (MIB), User Datagram Protocol Version 6 (UDP6) MIB, TCP6 MIB, and IPv6 MIB L2NAT, NAT444, DS-Lite, and NAT64
MPLS	MPLS TE and MPLS/BGP VPN, in compliance with RFC 2547 Inter-AS VPN Option A/B/C Integration with Internet services Martini and Kompella MPLS L2VPN L2VPN techniques, such as VPLS and VLL IP interworking over heterogeneous media Multicast VPN MPLS-TP, EVPN, Remote LFA
Layer 2 Features	IEEE 802.1Q, IEEE802.1ad, IEEE 802.1D, IEEE 802.1w, and IEEE 802.1s VLAN aggregation (super VLAN) Filtering list based on MAC addresses and ports 1483B
Reliability	IP/LDP/VPN/TE/VLL FRR Protection mechanisms such as IP/TE auto rerouting, IGP/BGP/multicast route convergence, VRRP, RRPP, IP-Trunk load balancing and backup, BFD, MPLS/Ethernet OAM, Y.1731, and routing protocol/port/VLAN damping PW redundancy, E-Trunk, E-APS, and E-STP In-service patching for smooth software upgrade Passive backplane design Redundancy backup for key components, such as route processing modules, SFUs, and power modules to guard against single points of failure Switching between components that hot-back up each other GR, NSF, NSR, and ISSU Hot swap of all components
QoS	Well-designed HQoS and advanced scheduling and congestion avoidance technologies on each LPU Accurate traffic policing and traffic shaping Complex rule definition and fine-grained flow identification MPLS H-QoS, ensuring QoS for MPLS VPN, VLL, and PWE3 services 8CT that combines MPLS TE and the DiffServ model TE-tunnel-oriented QoS
OAM	Y.1731, IP FPM, RFC 2544, MPLS OAM, 802.1ag, and 802.3ah, OPS
Multicast	IGMPv1, IGMPv2, and IGMPv3

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	Multicast routing protocols, including PIM-DM, PIM-SM, PIM-SSM, Multicast Source Discovery Protocol (MSDP), and Multiprotocol BGP (MBGP) Static multicast Multicast CAC Interoperability between multicast protocols Processing of multicast policies based on multicast routing protocols and multicast forwarding Multicast QoS and multicast replication for IPoE access users Two-level multicast replication on the SFUs and LPUs to optimize the multicast effect
Security	ACL-based packet filtering URPF GTSM DHCP snooping ARP attack defense and DoS attack defense MAC address limit and MAC-IP binding Secure Shell (SSH) and SSH version 2 (SSH v2) BGP-Flowspec RIPv2, OSPF, IS-IS, and BGP MD5, SHA256, Keychain
Value-added Services	IPsec tunnel Distributed GRE tunnel Distributed NetStream High-precision NAT: CGN
Environment Requirements	Long-term operating temperature: 0°C to 45°C Short-term operating temperature: -5°C to 55°C Long-term operating humidity: 5% RH to 85% RH Short-term operating humidity: 0% RH to 100% RH Operating altitude: ≤ 3,000 meters
Dimensions (W x D x H)	442 mm x 650 mm x 175 mm (DC, 4U)
Power Consumption (in full configuration)	920W (DC)
Weight without packaging [kg(lb)]	15 kg (33.07 lb)
Weight (in full configuration)	42 kg (92.59 lb)
Typical power consumption (with configuration) [W]	800 W (fully configured with LPUF-51s) 920 W (fully configured with LPUF-120s) 1239 W (fully configured with LPUF-241s)
Typical heat dissipation (with configuration) [BTU/hour]	2595.5 BTU/hour (fully configured with LPUF-51s) 2984.9 BTU/hour (fully configured with LPUF-120s) 4019.8 BTU/hour (fully configured with LPUF-241s)
Power supply mode	DC built-in
Rated input voltage [V]	－48 V/ －60 V
Input voltage range [V]	－38.4 V to －72 V
Maximum input current [A]	42 A/single-module
Number of service board slots	3
Number of slots	5
Redundant MPUs	1:1

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Redundant power supply	1+1
Noise at normal temperature (acoustic power) [dB(A)]	ETSI-compliance (<72dBA @ 23° C (73.4° F))
Maximum number of power chassis inputs	(1 channel/PEM)*2 PEM=2 channels
Maximum input cable size	25 mm^2
Front-end circuit breaker/fuse	50 A
Long-term operating temperature [° C(° F)]	0° C to 45° C (32° F to 113° F)
Short-term operating temperature [° C(° F)]	-5° C to 55° C (23° F to 131° F)
Storage temperature [° C(° F)]	-40° C to 70° C (-40° F to 158° F)
Restriction on the operating temperature variation rate [° C(° F)]	≤ 30° C/hour (86° F/hour)
Long-term operating relative humidity [RH]	5% RH to 85% RH, non-condensing
Short-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Storage relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	≤ 4000 m (13123.2 ft.) (For the altitude in the range of 1800 m to 4000 m [5905.44 ft. to 13123.2 ft.], the operating temperature of the device must decrease by 1° C [1.8° F] for every 220 m [721.78 ft.].)
Storage altitude [m(ft.)]	< 5000 m (16404 ft.)
MTBF [year]	27.44
MTTR [hour]	0.5
Availability	0.99999792

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