

HPE NONSTOP NETWORK I/O ADAPTER, TELCO CLIM

Telecommunication applications today utilize a variety of special protocols to manage and control the massive switching network that makes our wireless and land-based phone systems work. It is a very complex environment that demands the highest levels of reliability and fault tolerance.

The Telco Cluster I/O Module (CLIM), along with the IP CLIM and the Storage CLIM, is a part of the progressive I/O infrastructure for [HPE NonStop systems](#).

The Telco CLIM for HPE NonStop NS8 systems is available in two models:

- Four 10GBASE-T and one 1GBASE-T copper ports
- Four 10GBASE-SR optical ports and one 1GBASE-T copper port

The entry class Telco CLIM for HPE NonStop NS4 systems comes with a five 1GBASE-T copper port model.

The Telco CLIM provides support for three protocols:

- The protocol MTP Level-3 User Adaptation Layer (M3UA)
- Session Initiation Protocol (SIP)
- Diameter protocol

M3UA enables the Signaling System 7 (SS7) protocol to run over IP. SIP is a signaling protocol that is widely used for setting

up and tearing down multimedia communication sessions such as voice and video calls over the internet. Diameter is an AAA protocol, a type of computer networking protocol for authentication, authorization, and accounting, and is a successor to Remote Authentication Dial-In User Service (RADIUS). Diameter controls communication between the authenticators and any network entity requesting authentication.

KEY FEATURES AND BENEFITS

- Provides high-speed Ethernet connectivity
- Supports M3UA, Diameter, and SIP protocols
- Delivers higher performance¹
- Delivers higher availability
 - With dual RAID 1 OS boot disks, the Telco CLIM continues to run even if one disk fails; the failed disk can be replaced online.

¹ Your performance can vary depending on your application, message sizes, and traffic patterns and conditions.

- Provides better fault tolerance
- Provides lower cost per port
- Requires no change to applications
- Supports InfiniBand for the system interconnection
- Is supported by Open System Management (OSM)

AUTOMATIC TCP/IP CONNECTION FAILOVER (ATCF)

In addition to support for failover from one interface to another in the same CLIM, the Telco CLIM supports a novel feature called Automatic TCP/IP Connection Failover (ATCF). This feature allows TCP/IPv4 connections of the applications running on the NonStop host system to failover from the primary CLIM to its backup CLIM in case of a failure. The TCP/IPv4 connections of the applications running on the NonStop host system can be restored on the primary CLIM automatically or manually once the primary CLIM becomes available.

CONFIGURATION AND PACKAGING

The number of Telco CLIMs that can be supported on different NonStop systems depends on the particular system type and how many IP and Storage CLIMs are also on that system. Consult with your local NonStop field representative for exact configuration guidelines for the NonStop platform that you are interested in.

MANAGEABILITY

OSM provides a highly automated and integrated management command and control. With OSM, operators do not need to learn Linux® command and control and the NonStop software seamlessly interfaces with the Telco CLIM subsystem, enabling you to manage Telco CLIMs as you have managed other NonStop controllers in prior systems.

HPE INTEGRITY NONSTOP SYSTEMS DEPLOY A NOVEL I/O INFRASTRUCTURE FOUND ON HPE PROLIANT GEN10 SERVERS, SPECIALLY ADAPTED FOR HPE NONSTOP PLATFORMS AS CONTROLLERS, FOR HIGH-SPEED CONNECTIVITY. THE TELCO CLIM CONTROLLERS SUPPORT MULTIPLE HIGH-SPEED ETHERNET LINKS AND THE M3UA, SIP, AND DIAMETER PROTOCOLS.



Data sheet

Optimize your IT investment strategy with new ways to acquire, pay for, and use technology, in lock-step with your business and transformation goals. hpe.com/solutions/hpefinancialservices

Training and education

Gain the skills you need with training and certification from HPE. With [HPE NonStop training](#), you accelerate your technology transition, improve operational performance, and get an excellent return on your HPE investment.

Our training is available when and where you need it, through flexible delivery options and a global training capability. More trainings and webinars can be found at: nonstop-academy.com

HPE Pointnext Services

Leverage one of the most comprehensive support solutions tailored to meet your specific data center support requirement. HPE Pointnext Services offers a wide choice of proactive and reactive service levels covering requirements ranging from basic to complex businesses critical environments.

[HPE Pointnext Services for NonStop systems at a glance](#)

TECHNICAL SPECIFICATIONS

Specifications	Description
Hardware	HPE ProLiant DL380 Gen10 with one Intel® Xeon® processor
Form factor	2U
Weight	33 lb (15 kg)
Maximum watts RMS	AC power: 190W
Power factor (max. is 1.0)	0.98
Dimensions (h x w x d)	3.44 x 17.54 x 26.75 in.
Plug NEMA (plug type)	AC power: IEC-320-C14
Number of power plugs	2
NonStop system types supported	HPE NonStop NS8 and NS4 systems
Software requirements	HPE NonStop L20.10 RVU and the appropriate CLIM installation software

LEARN MORE AT

hpe.com/info/nonstop

Make the right purchase decision.
Contact our presales specialists.



Chat



Email



Call



Get updates


**Hewlett Packard
Enterprise**

© Copyright 2011, 2013, 2015–2016, 2018, 2020 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Linux is the registered trademark of Linus Torvalds in the U.S. and other countries. Intel Xeon is a trademark of Intel Corporation in the U.S. and other countries. All third-party marks are property of their respective owners.

4AA2-2556ENW, November 2020, Rev. 6