Versatile UC and SD-WAN Platform

AudioCodes Mediant 800 Universal Customer Premises Equipment (uCPE) is an ideal platform for Unified Communications as a Service (UCaaS) providers and Enterprises looking to reap the benefits of Network Function Virtualization (NFV) and who need a uCPE providing a reliable and resilient software-defined wide area network (SD-WAN) solution.

The platform integrates an Intel server module that can run multiple AudioCodes or third-party Virtual Network Functions (VNF) in conjunction with the embedded Physical Network Functions (pNF) required for hosted business communications.

The embedded pNF includes branch router, session border controller (SBC) and media gateway functionality, ensuring SIP interoperability, connectivity, security and resiliency.

**Single Platform for Multiple VNFs | Integrated VoIP Functionality | WAN Resiliency**

- **Cloud Connectivity**
  Ideal solution for reliable and resilient UC service using SD-WAN

- **High performance**
  Assured high performance with dedicated uCPE processor

- **WAN Resiliency**
  5 optional WAN interfaces including 4G+/LTE Advanced, Fiber and T1

- **VoIP functionality**
  Embedded gateway, SBC and router offload processing from x86 module

- **Superior voice quality**
  Unique VoIPerfect™ technology ensures high voice quality over unmanaged broadband links
Solution Architecture

VoIP ENABLED EDGE uCPE

SBC AND GATEWAY
- Embedded SBC
- Up to 50 LAN ports with PoE
- Up to 12 FXS ports
- Up to 8 BRI and 4 PRI

INTEGRATED x86 SERVER AND MULTIPLE WAN INTERFACES
- 4 to 16 cores CPU for multiple applications
- Ethernet, 4G+, 4G/LTE and fiber WAN

Specifications

Built-In Intel Server (for running NFVs)

CPU Options
Versatile CPU offering:
- C3558 (Intel Denverton)
- E3950 (Apollo-Lake)

Preinstalled Host OS
CentOS 7.0, Fedora 22, Ubuntu 15.04, Microsoft Windows OS

NFV MANO Compatibility
Tested with OpenStack and Heat templates

Telephony Interfaces

Analog
4/8/12 FXS ports; 4/8/12 FXO ports

Digital
Up to four E1/T1 interfaces with PSTN fallback, 8 BRI interfaces

Digital PSTN Protocols
Supporting various ISDN PRI protocols such as EuroISDN, North American NI-2, Lucent™ 4/5ESS, Nortel™ DMS-100 and others. It also supports different variants of CAS protocols, including MFC R2, E&M immediate start, E&M delay dial/start and others.

Network Interfaces

LAN
4 GE or 4 GE + 8 FE interfaces with PoE option

WAN
10/100/1000 Base-T copper Ethernet interface (standard)
2 dual-mode (100Base-X and 1000Base-X) SFPs (Standard)
ADSL2+, SHDSL, VDSL2 vectoring
T1
4G+/LTE Advanced

Embedded VoIP Functionality

Session Capacity
200

Registered Users
600

Transcoding
110

Physical/Environmental

Dimensions
1U x 320mm x 345mm (HxWxD)

Weight
Approx. 5.95lb (2.7kg) loaded with OSN

Mounting
Desktop or 19” rack mount

Operating Temperature
5°-40° C

Power
Internal AC power supply rated: 100-240 VAC ~ 50-60Hz 1.5A maximum
(Optional) Additional 12V 10A DC power, via an AudioCodes external AC/DC power adaptor

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