

# Acme Packet 1100 Enterprise Session Border Controller

Acme Packet 1100 is an [enterprise session border controller](#) appliance optimized for small to medium-sized business (SMB) and remote offices of large organizations. The compact appliance provides critical controls for delivering trusted, first-class real-time communications – voice, video, and multimedia sessions – across Internet Protocol (IP) network borders.

## Overview

The Acme Packet 1100 Enterprise SBC is specifically designed to meet the unique price-performance and manageability requirements of the small to medium-sized enterprise and remote office / branch office. Ideal for small site border control and Session Initiation Protocol (SIP) trunking service termination applications, Acme Packet 1100 delivers Oracle's industry-leading Enterprise SBC capabilities in a small form-factor appliance. With support for high availability (HA) configurations, TDM fallback, hardware-assisted transcoding and Quality of Service (QoS) measurement, Acme Packet 1100 is a natural choice when uncompromising reliability and performance are needed in an entry-level appliance.

With models designed for the smallest branch office to the largest data center, the Oracle Enterprise SBC product family supports distributed, centralize, or hybrid SIP trunking topologies.



Figure 1. Acme Packet 1100

## Features

The Acme Packet 1100 Enterprise SBC addresses the unique connectivity, security, and control challenges enterprises often encounter when extending real-time voice, video, and UC sessions to smaller sites. The appliance also helps enterprises contain voice transport costs and overcome the unique regulatory compliance challenges associated with IP telephony.

TDM capabilities ensure continuous dial-out service at remote sites, possibly in the event of WAN or SIP trunk failures. Stateful high availability configurations

## Applications

- Small and medium-sized business and branch office enterprise session border controller
- SIP trunk demarcation device
- Hosted UC services

## Key features

- Turnkey, small form factor appliance
- Industry-leading session border control features
- Hardware-assisted transcoding for optimal performance
- Per session QoS measurement
- Oracle Enterprise Operations Monitor probe
- TDM capabilities
- Redundant HA configurations
- Supports up to 360 signaled sessions and 5,000 registered devices

## Key benefits

- Cost savings with uncompromised functionality
- Straightforward deployment and operation
- High service quality and reliability
- Supports centralized, distributed, or hybrid SIP trunking deployment models
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protect against link and hardware failures. An embedded browser based graphical user interface (GUI) simplifies setup and administration.

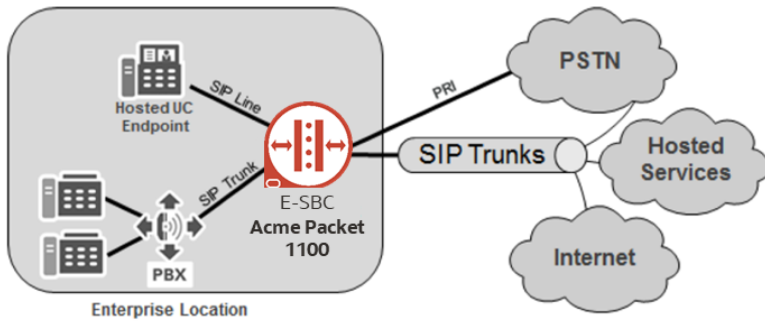


Figure 2. Acme Packet 1100 supports a wide range of deployment models and resiliency options, ensuring high service availability for small to medium sized business and remote office locations.

## Capabilities

### Acme Packet 1100 Enterprise SBC features and capabilities

FEATURE	CAPABILITIES
Security	<ul style="list-style-type: none"> <li>Granular access control</li> <li>IP address and SIP signaling concealment</li> <li>Layer three through five topology hiding and signaling overload controls</li> <li>IP telephony spam protection</li> <li>Stateful deep packet inspection</li> <li>Signaling and media encryption</li> </ul>
Interoperability	<ul style="list-style-type: none"> <li>SIP message normalization</li> <li>Response code translation</li> <li>Session Description Protocol (SDP) and Dual Tone Multi-Frequency (DTMF) manipulation</li> <li>Number and uniform resource identifier (URI) manipulation</li> <li>Signaling message header manipulation</li> <li>Signaling interworking (SIP, H.323)</li> <li>Protocol interworking: Transmission Control Protocol (TCP), User Datagram Protocol (UDP), Stream Control Transmission Protocol (SCTP)</li> <li>Encryption interworking: Transport Layer Security (TLS), Mutual TLS, Secure Real-time Transport Protocol (SRTP)</li> <li>Network address translation (NAT) and firewall traversal</li> <li>IP address translation: private/public</li> <li>Transcoding</li> <li>Support for Microsoft ELIN Gateway and Avaya Personal Profile Manager proxy</li> <li>Session routing based on Microsoft Active Directory query</li> </ul>
Reliability	<ul style="list-style-type: none"> <li>Standby SIP registrar with caching for remote site survivability</li> <li>Stateful signaling and media failover</li> <li>Quality of service (QoS) marking, virtual local area network (VLAN) mapping, access control</li> <li>Registration storm avoidance</li> <li>Call rate limit enforcement</li> <li>Trunk load balancing</li> <li>Stateful session routing</li> <li>QoS-based routing</li> </ul>
Regulatory Compliance	<ul style="list-style-type: none"> <li>Session prioritization for emergency services</li> <li>Internet Engineering Task Force (IETF) standard SIP Recording (SIPREC) interface</li> <li>Call detail records (CDRs) with local or remote storage via RADIUS</li> </ul>
Cost Management	<ul style="list-style-type: none"> <li>Least cost routing</li> <li>Codec renegotiation</li> </ul>
Management	<ul style="list-style-type: none"> <li>Browser-based GUI</li> <li>SIP Monitoring and tracing tool</li> <li>SNMP, Syslog, SFTP, RADIUS interfaces</li> </ul>

### Network session delivery and control infrastructure

Oracle's network session delivery and control infrastructure enables enterprises and service providers to manage the many challenges in the delivery of IP voice, video, and data services and applications.

Distributed enterprises leverage Acme Packet 1100 as a cost effective, reliable, feature rich remote office ESBC that is easy to install and administer.

Service providers leverage Acme Packet 1100 as customer premise equipment (CPE) to enable SIP trunking and hosted communications services. The appliance serves as a flexible and resilient service demarcation point that can be easily managed from the service provider Network Operations Center (NOC).

## System capacity, performance, and availability

Acme Packet 1100 supports up to 360 sessions, offers high availability (HA) operation for nonstop service, and supports hardware-assisted transcoding and quality of service (QoS) measurement.

### Acme Packet 1100 Enterprise SBC system capacity, performance, and availability

CAPABILITY	DESCRIPTION
Session capacity <sup>a</sup>	Up to 360 simultaneous signaled sessions
Subscriber capacity	Up to 5,000 registered endpoints (UDP / TCP / TLS)
HA configuration	Active/standby systems (1-to-1 redundancy) with check-pointing of signaling, media, and configuration state for no loss of service
SRTP capacity	Up to 450 call legs
Transcoding capacity	Up to 360 transcoded sessions (with optional hardware assist module)

*a. Performance and capacity vary by signaling protocol, call flow, codec, configuration, and feature usage.*

## Hardware

Acme Packet 1100 combines remote office session processing and capacity, with the system throughput and redundancy features typically found in higher-end systems. The compact unit can be rack-mounted (1RU), wall-mounted, or installed on a tabletop.

### Hardware options

#### Onboard Transcoding Module

Acme Packet 1100 supports an optional hardware module for onboard media transcoding. The module offloads processor-intensive functions, enabling high-performance transcoding without compromising end-user quality of experience.

#### T1/E1 TDM Fallback Module

Acme Packet 1100 supports an optional four port T1/E1 interface module for TDM fallback. In centralized SIP trunking topologies the module preserves voice services in the event of a corporate WAN connectivity failure. In distributed SIP trunking topologies the module preserves dial-out voice services in the event of a local SIP trunk interface failure.

#### Analog Module

Acme Packet 1100 supports an optional four ports analog module (four FXS or four FXO ports) to connect voice to legacy equipment such as analog phones, fax machines and PSTN network for fallback.

### Acme Packet 1100

Compact enterprise-session border controller appliance optimized for small to medium-sized business (SMB) and remote offices of large organizations.

### Related products

- Oracle Enterprise Session Border Controller
- Oracle Enterprise Communications Broker
- Oracle Enterprise Operations Monitor
- Oracle Communications Security Shield

## Acme Packet 1100 specifications

### Acme Packet 1100 Enterprise SBC specifications

PHYSICAL	DETAILS
Dimensions (not including mounting hardware)	<ul style="list-style-type: none"> <li>Height: 4.45 cm (1.75 in.)</li> <li>Width: 28.57 cm (11.25 in.)</li> <li>Depth: 21.54 cm (8.48 in.)</li> </ul>
Weight	<ul style="list-style-type: none"> <li>1.81 kg (4.0 pounds)</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Operating: 32°F to 104°F, 0°C to +40°C</li> <li>Storage: -4°F to 149°F, -20°C to +65°C</li> </ul>
Relative humidity	<ul style="list-style-type: none"> <li>10% to 85%, non-condensing</li> </ul>
Airflow	<ul style="list-style-type: none"> <li>2.2 CFM (3.6 CFM Max)</li> </ul>
Chassis	<ul style="list-style-type: none"> <li>Chassis 1U, rack mount, table top, wall mount</li> <li>Rear: Three 10/100 Mbps Ethernet copper ports (RJ-45 connector) dedicated to WAN, LAN, and management functions</li> <li>Optional brackets for rack mount in 19" racks</li> </ul>
POWER AND STORAGE	DETAILS
External AC power supply	<ul style="list-style-type: none"> <li>Power: 60W, max</li> <li>Voltage: Auto ranging 100-240 VAC, 50/60 Hz</li> <li>Current: 5A, max</li> <li>Cable: C-13 connector and country-dependent power cords</li> </ul>
Storage	<ul style="list-style-type: none"> <li>32 GB mSATA drive for runtime image, backup configurations and local call detail record (CDR) backup</li> </ul>
HARDWARE OPTIONS	DETAILS
Onboard transcoding module	<ul style="list-style-type: none"> <li>Hardware-assisted transcoding</li> <li>Transcoding supported between any of the following: G.711 <math>\mu</math>-Law, G.711 A-Law, G.722, G.722.2 (AMR-WB), G.723.1, G.726, G.729 Annex A, G.729 Annex B, AMR, Global System for Mobile – Full Rate (GSM-FR), Internet Low Bitrate Codec (iLBC), Enhanced Variable Rate Codec (EVRC), EVRC-B, Opus, SILK</li> <li>T.38 transcoding to/from G.711 <math>\mu</math>-Law, G.711 A-Law only</li> </ul>
T1/E1 module	<ul style="list-style-type: none"> <li>One T1/E1 port (RJ-48)</li> <li>Four T1/E1 ports (RJ-48)</li> </ul>
Analog module	<ul style="list-style-type: none"> <li>Four FXS ports or four FXO ports</li> </ul>
REGULATORY	DETAILS
Regulatory <sup>1,2</sup>	<ul style="list-style-type: none"> <li>Product Safety: EN 62368-1, IEC 60950, IEC 62368-1 CB scheme with all country differences, UL 62368, CSA 22.2 No. 62368-1 <ul style="list-style-type: none"> <li>» Emissions : EN55022, EN61000-3-2, EN61000-3-3 or EN61000-3-12, EN6100-3-12</li> <li>» EN55024</li> </ul> </li> <li>Emissions and Immunity : EN300 386</li> </ul>
Certifications <sup>2</sup>	<ul style="list-style-type: none"> <li>North America (NRTL)</li> <li>Japan (VCCI)</li> <li>Korea (KCC)</li> <li>Taiwan (BSMI)</li> </ul>
European Union Directives	<ul style="list-style-type: none"> <li>2006/95/EC Low Voltage Directive</li> <li>2004/108/EC EMC Directive</li> <li>2011/65/EU RoHS Directive</li> <li>2012/19/EU WEEE Directive</li> </ul>

1. All standards and certifications referenced are to the latest official version. For additional detail, please contact your sales representative.

2. Other country regulations/certifications may apply

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