Clarent® BHG™

Backbone High-density Gateway.

The Clarent BHG media gateway is the ideal trunking gateway complement to the Clarent Class 4 Call Manager and Clarent softswitch – a proven software replacement for the traditional TDM switch.

- Carrier grade reliability
- NEBS compliance (Level 3 certification)
- High density and scalability
- Hot swappable blades, power supplies and fan tray
- Up to 64 E1 or 80 T1 interfaces
- Universal deployment supports multiple signaling protocols

Evolutionary solution for next generation networks

The logical course of telecommunications evolution points emphatically in one direction… converged voice and data networks. Network consolidation, downward price pressure, and arbitrage opportunities are making the transition from the PSTN circuit-switched model to next generation networks crucial to the success of Tier I and Tier II providers. The Clarent NGN (Next Generation Network) is designed specifically to facilitate this migration seamlessly, while simultaneously allowing Carriers to realize their existing PSTN investments. The Clarent NGN is an intelligent aggregate of cost effective, highly flexible products and services that provide the perfect solution for continued success and profitability in providing the next generation of voice services.

Reliability. Scalability. High density.

The Clarent BHG (Backbone High-density Gateway), the media gateway component of the Clarent NGN, gives customers the immediate advantage of a carrier grade media gateway. This means customers quickly gain the reliability, scalability, and high-density features critical to the future success of telecommunication service providers.

Features

Built to support the stringent Telco reliability requirements, the Clarent BHG offers redundancy via N+1 power supplies. This configuration assures constant availability, and constant availability translates into superior reliability, a feature further illustrated in the United States through the Clarent BHG's NEBS level 3 compliance. The Clarent BHG supports VoIP applications requiring voice compression algorithms, or fax/data modem support, and can be configured for internet offload applications.

Harnessed within the Clarent BHG is high density and scalability. Scalable from 240 to 1920 ports per chassis, and up to 7680 ports utilizing a seven-foot rack, customers selecting Clarent subsequently eliminate the need for future forklift upgrades.

Clarent furthers its proven universal solutions support for open industry protocol standards, including MGCP for its call control, and SS7, ISDN, and MF trunking. This provides seamless protocol integration with networks across the globe and affords Clarent customers' peace of mind: a total solution that caters to the needs of today and provides the ability to scale for the demands of tomorrow.

CLARENT®

Specifications

Telco Grade Reliability and Serviceability

- New compact PCI high density trunking gateway
- NEBS Level 3 compliant chassis with custom backplane
- Up to 64 E1 or 80 T1 interfaces per chassis
- Backplane design provides high reliability
- DSP blades with LIMs
- 10/100/1000 Ethernet Switch Blade, Layer 2 control
- Alarm blade monitors the health of the chassis' three power supplies and fan tray
- Hot swappable blades, power supplies and fan tray
- OAM&P services

Redundancy

- Primary/secondary Ethernet switch cards
- N + 1 redundancy for power supplies high density and scalable
- Scales from 240 to 1920 ports on each Backbone High-Density chassis
- Scales up to 7680 ports (4 shelves) per each 7 foot by 19" equipment rack

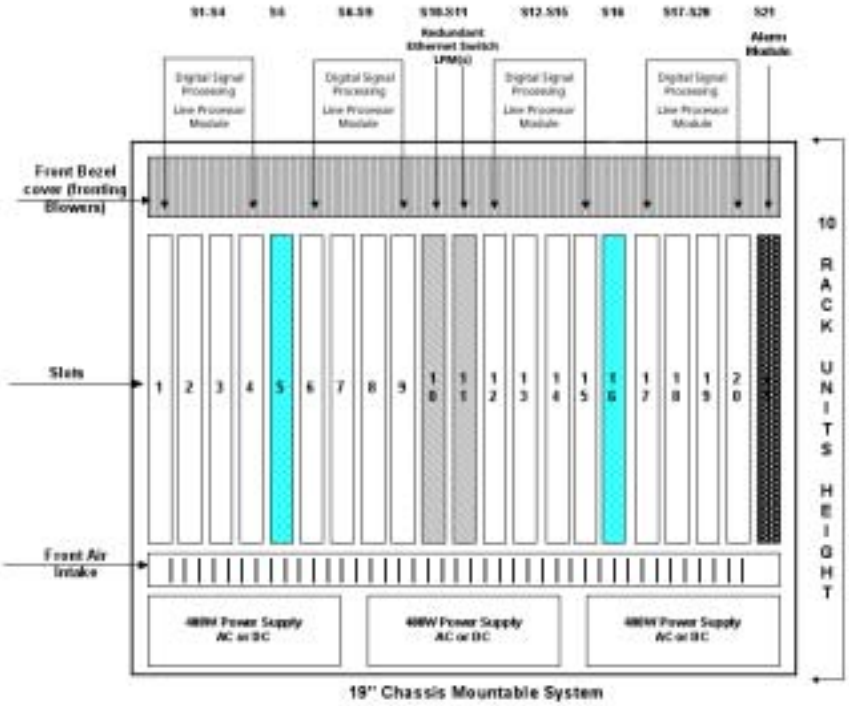
PSTN (T1 or E1) Interface

- The two to sixteen Line Interface Modules (LIMs) installed in the rear of the chassis bring in either T1 or E1 signals from the PSTN through the custom backplane to their associated DSP blades, ultimately sent out in packets on a gigabit Ethernet link to the IP cloud.
- The Clarent BHG is fully integrated with other Clarent products: Clarent Gateways, Clarent Command Center™, Clarent Class 5 Call Manager, and Clarent H.323 Gatekeeper

Additional Functionality

- For connection to SS7 networks Clarent includes the Clarent MPSS
- Wide Area Network bandwidth reduction:
  Up to 12:1 compression via Clarent ThroughPacket®

Technical Specifications



19" Chassis Mountable System

Power
-48VDC
625 Watts @13 Amps Nominal
960 Watts @ 20 Amps Maximum
Weight
86 Pounds
39 Kilograms
Dimensions
17.5 in x 17 in x 16 in
444.5 mm x 431.8 mm x 406.4 mm
Temperature
Operating: 5ºC to 40ºC (41ºF to 104ºF)
Short Term*: -5ºC to 50ºC (23ºF to 122ºF)
*Short-term refers to a period of not more than 96 consecutive hours and a total of not more than 15 days in 1 year
Non-operational packaged: -40ºC to 70ºC
Transport and storage (Includes low temp and high temp thermal shock)
Relative Humidity
Operating: 5% to 85%
Short Term*: 5% to 90%
(not to exceed 0.024 kg water/kg of dry air)
Non-operational packaged: 90% to 95% at 40ºC for 96 Hours
High relative humidity
Altitude
60 m (197 ft) below sea level, through +4000 m (13,123 ft) above sea level
Earthquake
NEBS Zone 4
Mounting options
Rack ears (included in accessories box)
Safety
Approved to IEC 60950, EN 60950/A11.
CE Mark for Product Safety.
EMC
Complies with CFR47, FCC Part 15 Class B, EN55022, EN55024 and EN50082-1.

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