PurePacketOUTburst 1212 / 1224

Integral Access extends the reach of the New Public Network to the customer premises with a packet-based, broadband access solution that supports converged voice, video, and data services. Using Label Switching and advanced traffic management, Integral Access' solution delivers carrier class QoS, while enabling service providers to easily and economically deliver, manage and bill for next generation IP-converged services and applications. Supporting packet, SoftSwitch and circuit switch technologies, Integral Access hardware and software allows service providers to leverage existing infrastructure as they migrate to the New Public Network.

The PurePacketOUTburst 1212 and OUTburst 1224 fixed configuration IADs provide a scalable Carrier Class solution for delivering broadband, IP-converged voice, video, and data services for small and medium businesses. These highly cost effective IADs (Integrated Access Devices) provide integrated voice and data services via a PurePacket infrastructure to SMBs. The award winning PurePacketNode provides aggregation, service interworking and voice gateway functionality for OUTburst IADs. Dynamic bandwidth allocation and QoS enable voice and data to be transmitted simultaneously across a common access line, providing great cost savings. For example, in a typical configuration an OUTburst 1224 can deliver 24 simultaneous voice calls and 500kbps of data over a single DS1 leased line, using G.711 coding. Additional Best Effort data can be carried when voice lines are not in use. Label Switching, echo cancellation, Voice Activity Detection (VAD) and comfort noise addition provide complete toll-quality voice connections. The OUTburst-1212 and 1224 combine leading voice packetization and CPE router capabilities to deliver cost effective next generation access.

- **Converged IP Access for Small and Medium Businesses**
  Voice, Video and Data services over a common DS1 access line
- **Dynamic Bandwidth Allocation**
  Available bandwidth fully utilized at all times.
- **Converged IP Voice**
  Softswitch, Voice over IP (VoIP) and Class 5 integration.
- **Guaranteed Quality of Service (QoS)**
  Label switching and advanced traffic management ensure that differentiated services are prioritized and appropriately resourced.
- **Intelligent Service Automation**
  PurePacketOMS® (Operations Management System) automates provisioning, SLAs and service assurance using advanced modeling, templates and policy based facilities.

- **Carrier Class**
  Optional 110V AC or –48V DC power input providing simple integration into local power distribution.
- **Integrated CPE Router**
  OUTburst 1212 and 1224 provide essential IP routing capabilities including VPN, DHCP, NAT, VLANs, ACLs and TOS/DiffServ.
- **Central Configuration and Management**
  Remote provisioning, maintenance, and troubleshooting.
- **Migration Flexibility**
  Seamless integration to existing voice and data equipment.

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Specifications

System Architecture
- Advanced, intelligent packet based IAD for converged voice, video and data
- PurePacketNode or PurePacketCompact provide aggregation, service interworking and voice gateway functionality

Services
- VoIP / VoMPLS
- POTS-PSTN dial-tone
- High speed internet access
- Corporate LAN connection
- Data and voice VPNs

Customer Interfaces
- Ethernet IEEE 802.3 10/100Base-Tx
- FXS 2-wire, loop start, balanced ringing 63 Vrms
  12-ports OUTburst 1212
  24-ports OUTburst 1224
  In building loops up to 1,000ft

WAN Interface
- DS1 clear channel, integrated CSU

Protocols
- Voice
Encoding: PCM G.711, G.726*, G.729*
Encapsulation: VoIP, VoMPLS, with VAD and Silence Suppression
Switch Protocols: D4, GR-303, MGCP, H.248*, SIP
Echo Cancellation: G.165, G.168
- IP Routing: TCP/IP, UDP, ICMP, ARP, RIPv2, DHCP, NAT/NAPT, PPP, TOS/DiffServ, IP VPN
- L2IP offers an alternative, Layer 2 forwarding mode, suitable for internet access, with the ability to provide QoS via 802.1Q and TOS/DiffServ
- PurePacketTLS provides native Layer 2 bridging mode for Transparent LAN Services.
- Traffic Engineering: Policing, Shaping, dynamic bandwidth allocation and integrated services

* Future

Management
- PurePacketOMS – Advanced Service Creation and Management platform for IP based infrastructure
- Proxy Management of OUTburst IADs and compatible devices
- SLA Wizard
- Java Based
- Remote Provisioning
- Interface Status LEDs

Physical
- Dimensions 1.65" (1U) x 17" x 8" (H/W/D)
- Weight – 7 lbs
- Mount 19" or wall mount

Power
- 110-120V AC 60Hz
- -48V DC (-40V to –62V)

Environmental
- Temperature: 5° to 40°C
- Humidity: 5 to 85%

Redundancy / Reliability
- Line Loop back

Certification
- EN 60950-1
- UL Listed
- FCC Part 15, Class A
- IC ES003
- FCC Part 68 (DS1 WAN)

Ordering Information
OUTburst 1212D AC power: OUTb-1212D-334
OUTburst 1212D DC power: OUTb-1212D-354
OUTburst 1224D AC power: OUTb-1224D-370
OUTburst 1224D DC power: OUTb-1224D-380

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110-000-xxx Rev C