

ZIPGateway (2) VoIP Broadband Media Gateway

Perfect Solution for Integrated Broadband Service Access

The ZIPGateway (2) is an enhanced version of the integrated access device (IAD) product that combines the capabilities of a residential voice gateway and a multi-port router switch. In addition to the traditional IAD product feature, it provides extra LAN networking capability and voice prioritization feature to ensure the voice quality in a congested networking environment. The product is equipped with two analog phone ports, one 10M/100M WAN link port and two 10M/100M LAN ports. As the integrated access device, the ZIPGateway (2) can connect POTS phones, multiple PCs, IP set top boxes or other types of data devices to the IP broadband network.

Product Highlights

- **Built-in router and switch functions**
- **Call control protocols: SIP, H.323 and MGCP**
- **Multiple LAN port access and port traffic control**
- **Enhanced data and voice QoS control**
- **Multiple network management options**

Advanced Features

The ZIPGateway (2) provides a complete set of voice gateway and switch router features, and it can readily provide IP phone services when deployed in conjunction with the soft switches and the VoIP gateways in a carrier network. It also supports 802.1p/q and traffic flow control to ensure the reliable transmission of voice services.

- ***Support both data and voice*** - Provides unified access to broadband IP voice, video and data simultaneously. Up to 2 POTS lines and 2 LAN ports connectivity. Multiple VLAN support, 802.1p/q and TOS or DSCP tagging of VoIP service, and QoS priorities at multiple virtual interfaces, ensuring greater service feasibility and reliability.
- ***Rich feature set*** - Support NAT/Firewall penetration, plug & play, roaming, authentication, voice, encryption, PSTN bypass, PPPoE authentication, and Z interface polarity reversal designed for ease of billing. Support for dial plan configuration, basic voice and supplementary service features.

- ***Flexible to deploy*** - The compact design is well suited for home, SOHO and enterprise applications. The IP addresses can be statically allocated or dynamically obtained via DHCP.
- ***Simple to manage*** - Supports local management access, Telnet, WEB, SNMPv1/v2/v3, and remote online upgrade. Centralized provision and upgrade management support via KZ Tech iManager™ 2000 product.

Specification

Physical

Dimensions 135 mm × 105 mm × 32 mm
Weight < 0.5kg
Power Consumption < 7.5w
Power Supply 12V DC

Environmental

Temperature -5 C to 50 C
Humidity 90% maximum Non-condensing

System

Interface

1 10/100 M WAN side FE
2 10/100M LAN side FE
2 RJ11 analog phone ports

LED

System status, Power status, Phone status, Ethernet port status

Voice transmission distance

3Km-5Km

Voice

Compression G.711

G.723.1
G.729 A

Comfort Noise

Comfort noise insertion and level control

Echo Cancellation

G.165/G.168-2000 echo cancellation

Silence Suppression

Silence detection and suppression

Fax

T.30 and T.38

Delay/Jitter/Loss

Delay, jitter, packet loss compensation

DTMF Relay

Inband DTMF Relay and RFC 2833

Call Duration

Uninterrupted for >48 hours continuously

Service

Basic Voice

Local and domestic/international long distance calls
Flexible dial plan configuration support

Complementary Voice Services

Caller ID, Caller ID suppression, call screening, speed dial, call tracing, hotline, unconditional call forwarding, call forwarding when no answer, call forwarding when busy, call waiting, call back, call blocking, no disturbance, alarm, 3-way call etc.

Data

Supports routing functionality for dedicated data access by user PC, set top box and etc.

Supports DHCP or static IP address assignment

Supports multiple VLAN, TOS or DSCP tagging for service differentiation and QoS prioritization

Supports plug and play and multi-service application

Networking

Soft Switch based network configuration

IAD inter-working

Industry Standards

IEEE

IEEE 802.3 10Base Ethernet

IEEE 802.3u Fast Ethernet

IEEE 802.1p CoS Priority Protocol

IEEE 802.1Q VLAN Tagging

IETF

IP voice SIP/H.323/MGCP

Security criterion

FCC part 15, 68

CE EN55022, EN55024

Additional Features

NAT/Firewall traversal, PPPoE authentication, VoIP encryption, Z interface polarity reversal

Management

Local console, Telnet, Web, SNMP v1/v2/v3, SYSLOG, remote online upgrade, centralized management via iManager 2000

ZIPGateway (4) - VoIP Broadband Media Gateway

Perfect Solution for Integrated Broadband Service Access

ZIPGateway (4) is an integrated access device (IAD) that combines the capabilities of a residential voice gateway and a residential switch/hub. It is equipped with eight analog phone ports, one survivable PSTN lifeline, one 10M/100M WAN link port and one 10M/100M LAN port. As the integrated access device, the ZIPGateway (4-8) connects POTS phones, PCs, IP set top boxes and other types of data devices to the broadband network via its Ethernet WAN port.

Product Highlights

- **Call control protocol support: SIP, H.323 and MGCP**
- **Basic and supplementary service option support**
- **Data networking support (PPPoE, NAT, DHCP, VLAN)**
- **NAT and firewall traversal support**
- **QoS management support for data and voice traffics**
- **Multiple network management options**

Advanced Features

The ZIPGateway (4) provide a complete set of voice gateway features, and it can readily provide IP phone services when deployed in conjunction with the soft switches and the VoIP gateways in a carrier network. It also supports 4 Ports (802.1p/q) with superior QoS capabilities, ensuring the reliable transmission of voice services.

- ***Support both data and voice*** - Provides unified access to broadband IP voice, video and data simultaneously. Support for 802.1p/q, VLAN, TOS or DSCP marking and QoS priorities at multiple virtual interfaces, ensuring greater service feasibility and reliability.
- ***Rich feature set*** - Support NAT/Firewall penetration, plug & play, roaming, authentication, voice encryption PSTN bypass, dual-mode calls (PSTN/IP), PPPoE authentication, and Z interface polarity reversal designed for ease of billing.
- ***Flexible to deploy*** - The compact design is well suited for home, SOHO and enterprise applications. The IP addresses can be statically allocated or dynamically obtained via DHCP.

- ***Simple to manage*** - Supports local management access, Telnet, WEB, SNMPv1/v2/v3, and remote online upgrade. Centralized provision and upgrade management support via KZ Tech iManager 2000 product.

Specification

Physical

Dimensions 240 mm × 180 mm × 45 mm

Weight < 1kg

Power Consumption < 15w

Power Supply 12V DC

Environmental

Temperature -5 C to 50 C

Humidity 90% maximum Non-condensing

System

***Interface* 1 10/100 M WAN side FE**

1 10/100M LAN side FE

1 console port

4 RJ11 analog phone ports

LED

System status, Power status, Phone status, Ethernet port status

Max. Line Distance

3Km-5Km

Voice

***Compression* G.711**

G.723.1

G.729 A

Comfort Noise

Comfort noise insertion and level control

Echo Cancellation

G.165/G.168-2000 echo cancellation

Silence Suppression

Silence detection and suppression

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Delay/Jitter/Loss

Delay, jitter, packet loss compensation

DTMF Relay

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Call Duration

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Service

Basic Voice

- Local and domestic/international long distance calls
- Flexible dial plan configuration support

Complementary Voice Services

- Caller ID, Caller ID suppression, call screening, speed dial, call tracing, hotline, unconditional call forwarding, call forwarding when no answer, call forwarding when busy, call waiting, call back, call blocking, no disturbance, alarm, 3-way call etc.

Data

- Supports routing functionality for dedicated data access by user PC, set top box and etc.
- Supports DHCP or static IP address assignment
- Supports VLAN, TOS or DSCP tagging for service differentiation and QoS prioritization
- Supports plug and play and multi-service application

Networking

- Soft Switch based network configuration
- IAD inter-working

Industry Standards

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- IEEE 802.3 10Base Ethernet
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IETF

- IP voice SIP/H.323/MGCP

Security criterion

FCC

- part 15

CE

- EN55022, EN55024

Additional Features

- NAT/Firewall traversal, PPPoE authentication, VoIP encryption, Z interface polarity reversal

Management

- Local console, Telnet, Web, SNMP v1/v2/v3; Remote online upgrade, centralized management via iManager 2000