

Redstone Border Appliance

With VoIP and cloud communications being fast developed and widely used, enterprises are able to deploy the telephone solution based on distributed PBX communications or cloud/hosted communications networks at a lower cost. To prevent the interruption of calling and call-related services when headquarters server or cloud/hosted server disconnects, Redstone EGW series border appliances are designed to be deployed at local offices or branches to handle the calls instead of the disconnected server. After connection recovers, the calling services will be switched to the headquarters server or cloud/hosted server again.

Available models of EGW series border appliances offer analog (FXO/FXS) interfaces to meet the needs of varies companies with employees ranging

from 20 to 50.



4FXO, 2FXS/FXO
20 SIP clients, 24 SIP trunks

4G USB dongle



8FXO, 4FXS/4FXO, 6FXS/2FXO 50 SIP clients, 62 SIP trunks Built in 4G/5G module

Advantages

- Connection to PSTN by FXO ports, or connection to IP trunk by 4G/5G
- PSTN failover upon network or network failure
- Rich local voice features: call recording, high speed fax, video call, 3-way calling
- Enhanced security: TLS/SRTP encryption, white/black list, brute force login prevention etc.
- Configuration and management with Web GUI or network management system

Applications

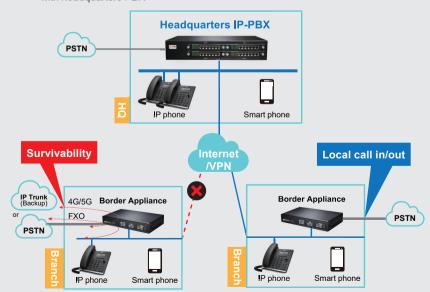
Cloud/Hosted IP-PBX

- Users' legacy lines connect to cloud PBX
- Obtain survivability from Redstone border appliance when cloud PBX is down

Survivability Survivability 4G/5G Border Appliance FXO PSTN Local call in/out IP phone Smart phone

Headquarters & Branches

- Branches' local PSTN trunks can be used by users in the headquarters, turning a long distance call to a local call
- Branches obtain survivability from Redstone border appliance when disconnected with headquarters PBX



Cloud/Hosted PBX connected: both the Redstone border appliance and headquaters IP-PBX handle calls

- - - Cloud/Hosted PBX disconnected: the Redstone border appliance handles all calls



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Specifications

Protocols

Call control SIP/UDP and SIP/TCP (RFC3261)

Network HTTP, DHCP server, DHCP client, PPPoE client, DNS client (A/SRV record), RTP/RTCP, STUN/NTP client

Media Processing

Codecs G.711 (a/µ), G.729a

DTMF In-band audio, RFC2833, SIP-INFO

Fax G.711 pass-through, T.38

T.38 compliant Group 3 Fax Relay

Maximum fax rate of 33,600 bps (pass-through/T.38 V3)

Voice

Calling Outbound/inbound calling of IP terminals

Call barring Internal, local, domestic, international, prohibited

Call forwarding Unconditional, on busy, or no answer

Call transfer Blind, or consultant

Auto switchboard Auto attendant, greeting, background music

DID to hunt group Sequential order, Round-robin order or simultaneous ringing; queue

Security

Encryption HTTPS, SSH, TLS/SRTP

VPN client L2TP, OpenVPN

Local Survivability

Voice proxy Be able to set two proxy servers with UDP/TCP/TLS transmission

OPTIONS heartbeat detection Be able to set a detection interval

Emergency call Maximum 4 numbers

Call authentication Prevent unregistered users to make calls

Remote management

Device management Redstone Remote Device Management System, third-party element management systems (SNMP, TR-069,

TR-104 and TR-106)

Auto provisioning Download configuration file via TFTP/FTP/HTTPS; Obtain ACS address via DHCP option 66 or redirection

Configuration Bulk import/export

Version upgrade Remote upgrade via Web

Administration and maintenance Telnet, SSH