



SP4220DX, MG4220DX series IAD

Model : 2FXS, 2FXO, 1FXS1FXO
Protocol : SIP or MGCP
Ethernet : 1WAN + 4LAN



SP4220, MG4220 series IAD

Model : 4FXS, 4FXO, 2FXS2FXO, 3FXS1FXO
Protocol : SIP or MGCP
Ethernet : 1WAN + 4LAN



SP8440, MG8440 series IAD

Model : 8FXS, 8FXO, 6FXS2FXO, 4FXS4FXO, 4FXS4PSTN
Protocol : SIP or MGCP
Ethernet : 1WAN + 4LAN

IP network features

- WAN :
 - * One 10/100Mbps auto-negotiation, auto-crossover Ethernet port
 - * Support static IP, PPPoE and DHCP address assignment
 - * QoS : IP TOS (IP Precedence), DiffServ, Port Priority
 - * NAT traversal : STUN, UPnP, OUTBOUND PROXY
 - * Pass Through NAT
 - * NTP : 3 configurable Time Servers. Time Zone support
 - * DDNS : DynDns.org, TZO, PeanutHull, 3322.org
 - * RTP Packet Summary : packet sent, packet received, packet loss
 - * MAC Address Clone
 - * RJ-45 connector
- LAN :
 - * Four 10/100Mbps auto-negotiation, auto-crossover Ethernet ports
 - * NAT / PAT - DHCP Server, DMZ, Virtual Server, Filtering (MAC, IP, PORT)
 - * QoS : Port based priority (Hi / Low) with rate limit
 - * Router or Bridge mode
 - * RJ-45 connector
- DoS prevention :
 - * Prevents attacks based on TCP, UDP, IP and ICMP protocols
 - * Prevents attacks such as SYN Flood, IP Spoofing, Ping of Death, Tear Drop, etc.

Operation & Maintenance

- Front Panel LED : voice ports, WAN, LAN1~4, Run, Power, Alarm
- WEB & Telnet user interface with password authentication
- Ping test
- Configuration, port status, registration status, hardware / software information in WEB and Telnet UI
- IVR configuration engine
- Reset button (with restore factory default function)
- Optional Gateway Manager software for managing/monitoring bulk number of IAD in central office
- Optional Auto Provisioning Server (APS) to enable mass deployment with less dispatch
- SNMP V1 / V2c

General Specifications

- Adapter : AC 100V~240V 50/60Hz input, DC 12V output
- Temperature : Operation 0 °C ~ 45 °C
Storage -25 °C ~ 75 °C
- Humidity : up to 90% RH, non-condensing
- Dimension (W/D/H)
 - 4220DX, 4220 : 202 x 172 x 35 mm
 - 8440 : 302 x 179 x 45 mm
- Weight
 - 4220DX, 4220 : 0.43Kg
 - 8440 : 1.2 Kg

Voice features

- SIP (RFC3261), MGCP 1.0 (RFC2705) compatible
- Voice codecs : G.711 a / μ law, G.726, G.729A, G.723.1
- CNG (Comfort Noise Generation)
- VAD (Voice Activity Detection)
- G.165/G.168 echo cancellation
- Adjustable Jitter Buffer and programmable Gain Control
- In-Band DTMF, Out-Of-Band DTMF relay (RFC2833, SIP INFO)
- Multiple SIP Proxy server entries with failover mechanism
- Polarity reversal detection (FXO) and generation (FXS)
- T.30 (G.III) / Real time T.38 / Secured T.38 FAX relay
- DTMF, FSK (Bellcore & ETSI) Caller ID detection and generation.
- Support Caller ID Restriction (CLIR)
- FXO hang up detection : Busy Tone candence auto learning / detection
- Call features :
 - Call Hold, Call Waiting, Call Pickup
 - Call Forward - Unconditional, Busy, No Answer
 - Call Transfer - Unattended, Attended
 - Speed Dialing, Repeat Dialing, Three Way Calling (Media Server required)
- Failsafe mechanism (FXS relay to PSTN) :
 - Network failure
 - Service unavailable
 - Power loss
- Single Number / Account for multiple ports
- Group Hunting function
- Digit Map
- Recordable greeting message
- Support special applications as shown in the network diagram
- Hot-Line, Warm-Line support
- Optional OCTTEL server software pack to upgrade an IAD to become a private VoIP network server (registrar)
- Analogue interface
 - Connector : RJ-11
 - Signaling protocol : Loop Start

The specifications are subject to change without notice. All other products or trademarks are the property of their respective owners.

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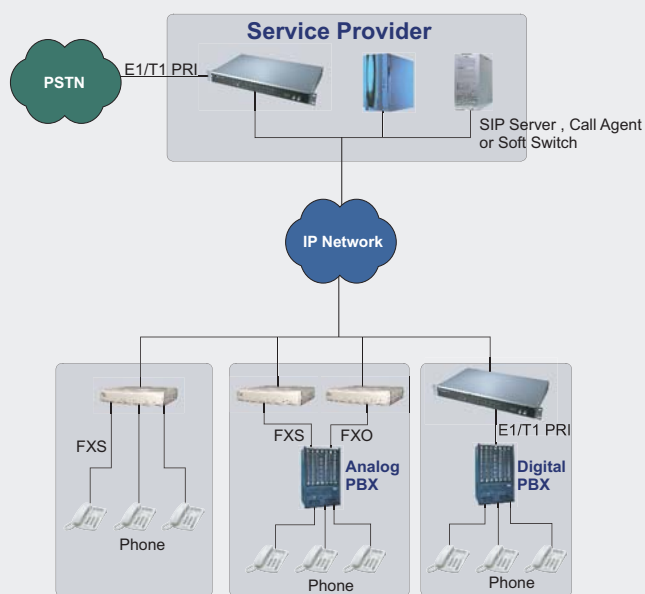
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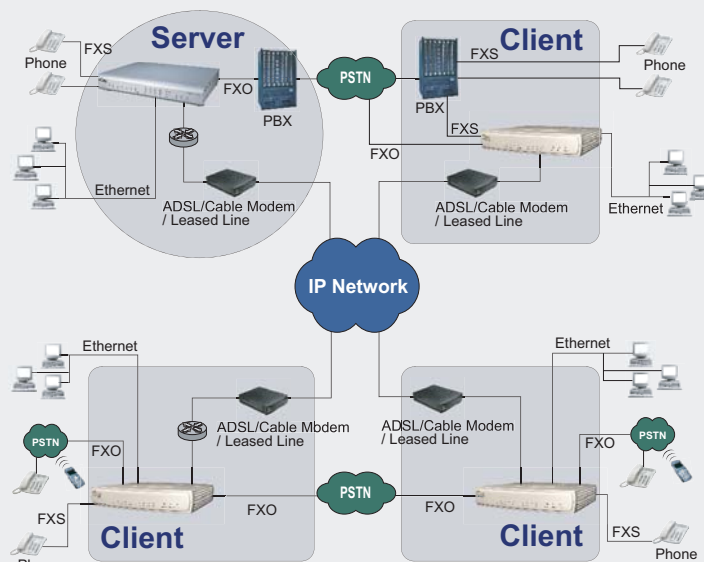




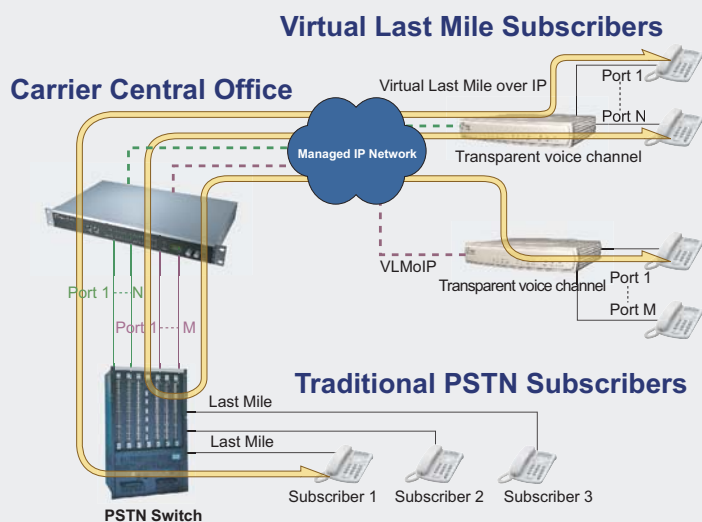
ITSP/ISR VoIP network



Private SMB VoIP network



Line extension over IP



Dual network VoIP - ITSP + Private

