

CELLX

Mobile gateway for 2G, 3G, and CDMA



- Delivers cellular-to-cellular dial-in for employees away from their desk who can access PBX features at no cost for minutes for use
- One phone number access from PBX to your employees' mobile number
- Leverage trunking for cell plan rate optimization: delivers cellular traffic to call accounting systems
- Benefit from mobile-to-mobile minutes for all business calls, even if your employees are on different carriers
- Transparent to your users and customers
- Improves features and functionality of mobility software and servers

Communication is priceless

CELLX is the first multichannel cellular gateway fully certified for sale in the USA and Canada.

Companies are increasingly looking to reduce their overall IT & communications spending; the CELLX does just that by leveraging your existing Avaya PBX investment. The CELLX allows non desk-bound workers to leverage their cell phones to your company's advantage which saves money and as importantly, time. The CELLX also optimizes your wireless routing and incorporates built-in disaster recovery capabilities, all within a single box. It's a value proposition that adds up to improved operations and overall cost reductions.

Business Continuity/Emergency Failover

In the event of landline outage, use the cellular gateway to make calls from desk phones over cellular networks. If enabled for Federal Wireless Priority System, calls are queued during an emergency with priority service.

Wireline Replacement/Last Mile Solutions

Use wireless cellular trunking in addition to or in place of VoIP. Offers immediate voice service, and installs where copper isn't ready.

Mobile Phone to PBX Integration

(Avaya One-X Mobile, Cisco Unified Mobile Communicator, etc.) Offers least-cost routing and best-call quality from cell phone to PBX.

CELLX

CAPABILITIES

Scalability	4–32 mobile channels 2 PRI 8/16/32 VoIP channels
VoIP codecs	G.711, G.723, G.726, G.728, G.729, GSM
Fax support	T.38, fallback to G.711
Echo cancellation	G.168 – 2002, 128 ms tail length
DTMF	RFC 2833, SIP/H.323 info, inband
VoIP quality	Configurable ToS, Diffserv, VLAN Silence suppression, VAD, CNG, G.729B QoS alternative routing based on ASR, fraction lost, jitter, and roundtrip delay. Traffic shaping Dynamic PSTN fallback (IntraStar patent)
Call routing	Time-dependent routing Multilevel alternative routing 5000 routing entries ENUM support Database managed routing Support for multiple gatekeepers, H.225 (v4) Support for multiple registrars Overlap/en-bloc conversion RFC 3578 Digit manipulation Black/white list
Advanced	Integrated SIP registrar and location server AOC generation (AOC-D, AOC-E) Integrated callback/two-stage-dialing server Integrated DSL router (PPPoE) RTP multiplex bandwidth reduction STUN support Symmetric RTP (COMEDIA) Radius support
CDMA specific	Alert/busy tone detection Announcement recognition E-mail to SMS conversion QoS routing: automatic blocking of GSM/UMTS ports based on ASR, announcements or network errors

SYSTEM MANAGEMENT

Remote access via IP or ISDN data call with NMS or GATE Manager
HTML configuration interface
SNMP (alarm management)
Call detail records (CDRs)
TELNET

PROTOCOLS

ISDN	PRI: DSS1 (Q.931, national variants), Q.SIG-BC, NI2, CAS/R2 E1/T1, TE/NT, CRC4/Double Frame
VoIP	SIP (RFC 3261), H.323 (v4)
Mobile	CDMA: Dualband 800/1900 MHz (Verizon, Sprint) 2G GSM: 850/900/1800/1900 MHz (AT&T, T-Mobile) 3G: UMTS/HSDPA Multipleband 2G 850/900/1800/1900 MHz 3G 850, 1900, 2100 MHz (AT&T, T-Mobile)

EXTERNAL INTERFACES

ISDN	2 × E1/T1, 120 ohm balanced, RJ-45
Ethernet	2 × Ethernet 10/100 Base-T RJ-45
Antenna	SMA (1 antenna per 16 channels)

PHYSICAL PARAMETERS

Size (W × H × D)	19.2 in × 6.97 in × 17.72 in
Material	Sheet steel
Mounting	19" Rack
Power supply	4U: 100–240 VAC, 400 W

ENVIRONMENTAL CONDITIONS

Temperature	+41°F to +73.8°F
Humidity	5 % to 80 % (non-condensing)

APPROVALS AND COMPLIANCE

FCC part 15, type acceptance parts 22 and 24
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