

VoIPBOX^{LCR}

VoIP LCR for up to 8 analog lines

The VoIPBOX LCR connects local telephone equipment to analog PBX extensions, to the PSTN, and to the VoIP network.



- VoIP gateways with 2+2, 4+4, or 8+8 FXO and FXS ports
- Fully featured Least Cost Routing
- PSTN backup (lifeline support)
- Built-in router with NAT enabled firewall
- Toll-grade voice compression
- T.38 fax support
- No single point-of-failure
- Signal learning using built-in signal analyzer

Cost effective migration

Connect your current infrastructure – as is – to the world of VoIP. Combination call and data routing solutions, VoIPBOX LCR gateways are analog VoIP gateways with a built-in router. The premium suite of features ensures complete compatibility with your current telephone equipment and total interoperability with all third-party VoIP equipment.

Least Cost Routing

Save money on every phone call. Voipbox LCR's (Least Cost Routing) features auto-identification of the cheapest route to each destination, whether that is via a standard fixed-line network or via the Internet.

Stand-alone functionality

Eliminate the need for an external gatekeeper or SIP server, speed up call establishment, reduce network maintenance, and improve network robustness. The Voipbox LCR architecture accomplishes all this by eliminating a single point of failure. An Officer gateway maintains and distributes updated dialing tables. Each gateway performs address translation and any gateway can take over the Officer function.

Outstanding flexibility and ease of use

Maximize dialing plan flexibility. Voipbox LCR gateways support a broad range of numbering plans and allow configuration to the port level. For call-flexibility, Voipbox LCR gateways enable two-stage dialing. Customizable IVRs assist throughout the process.

Traffic-shaping built-in router

Featuring a traffic-shaping, built-in router with NAT-enabled firewall, the Voipbox LCR delivers a highly functional integrated IP router, and a built in DHCP server. Get LAN switching, WAN routing, and VoIP all in one package.

Guaranteed voice quality

Ensure superior voice quality. In addition to all the standard VoIP features – like echo cancellation, silence suppression, and comfort noise – Voipbox LCR's premium feature set includes the best available DSPs, traffic shaping, and multi-level fallback.

Secure environment

Protect against non-authorized access with Voipbox LCR's three security levels: encrypted remote management, gateway level/call level authentication, and an embedded firewall. The firewall can be configured to varied security levels, including total block-out of all data except for VoIP.

CAPABILITIES

Scalability	4, 8, 16 concurrent calls Up to 8 FXS and 8 FXO ports
VoIP codecs	G.711, G.723.1, G.726/32, G.729
Fax support	T.38, fallback to G.711
Echo cancellation	G.165, G.168
DTMF	RFC 2833, SIP/H.323 info, inband
VoIP quality	Configurable ToS, Diffserv, VLAN Silence suppression, VAD, CNG, G.729B QoS alternative routing, fraction lost, jitter, and roundtrip delay. Traffic shaping
Call routing	Database managed routing Support for multiple gatekeepers, H.225 (v4) Support for multiple registrars
IP-Router	NAT – Static and Dynamic PAT (Port Address Translation) Port forwarding and port mapping Stateful firewall DHCP server on LAN interface DNS server
Advanced	AES-128 encryption mode Integrated callback/two-stage-dialing server PPPoE/PPTP support Integrated signal analyzer (dial tone, disconnect tone) Radius support (AAA) Dynamic protocol selection per call

PROTOCOLS

VoIP	SIP (RFC 3261) H.323 (v4)
FXS	reverse battery, loop start
FXO	power denial, reverse battery, loop start

SYSTEM MANAGEMENT

Browser-based configuration and monitoring application
Console access via IP
SNMP support
Call Detail Records (CDRs)
Software and hardware bypass modes
RS-232 ports for maintenance
Browser-based online help

PRODUCT VARIANTS

VoIPBOX LCR 2	2 FXS ports 2 FXO ports 4 VoIP channels
VoIPBOX LCR 4	4 FXS ports 4 FXO ports 8 VoIP channels
VoIPBOX LCR 2	8 FXS ports 8 FXO ports 16 VoIP channels

CONNECTION SPECIFICATIONS

Ethernet	2 × Ethernet 10/100 Base-T RJ-45
Analog connector	RJ-11
Line impedance	600 ohm, 900 ohm, complex (France, Germany, Sweden, UK)

PHYSICAL PARAMETERS

	VoIPBOX LCR 2	VoIPBOX LCR 4 VoIPBOX LCR 4
Dimensions (W × H × D)	213 mm × 45 mm × 125 mm	437 mm × 43 mm × 213 mm
Weight	530 g	2.1 kg
Voltage	12 VDC	100–240 VAC, 50–60 Hz
Power consumption	9 W max	60 W max

ENVIRONMENTAL CONDITIONS

Temperature	+5 °C to +40 °C
Humidity	5 % to 80 % (non-condensing)

CERTIFICATES

EMC, Safety, CE



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