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

**PRODUCT VARIANTS**

<table>
<thead>
<tr>
<th>VoIPBOX LCR 2</th>
<th></th>
<th>VoIPBOX LCR 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 FXS ports</td>
<td>2 FXO ports</td>
<td>4 VoIP channels</td>
</tr>
<tr>
<td>4 VoIP channels</td>
<td>4 FXO ports</td>
<td>8 VoIP channels</td>
</tr>
<tr>
<td>8 FXS ports</td>
<td>8 FXO ports</td>
<td>16 VoIP channels</td>
</tr>
</tbody>
</table>

**CONNECTION SPECIFICATIONS**

### Ethernet
- 2 x Ethernet 10/100 Base-T RJ-45

### Analog connector
- RJ-11

### Line impedance
- 600 ohm, 900 ohm, complex (France, Germany, Sweden, UK)

**PHYSICAL PARAMETERS**

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

**ENVIRONMENTAL CONDITIONS**

### Temperature
- +5 °C to +40 °C

### Humidity
- 5% to 80% (non-condensing)

**CERTIFICATES**

- EMC, Safety, CE

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