

LMIPT-41

High-class Rugged IP Phone

Proven Cisco technology

Five programmable line keys

Encrypted voice communications

Widescreen VGA backlight color display



LMIPT-41

The OPTOKON LMIPT-41 is a rugged IP phone specifically designed for use in harsh environmental conditions. The IP phone delivers the latest technology and advancements in IP telephony based on the **Cisco 8841** platform and provides communication over the same data network as your computer, allowing you to place and receive phone calls, put calls on hold, transfer calls, make conference calls, etc. The OPTOKON LMIPT-41 is built into a fully sealed and **vibration proof aluminum chassis**. The phone in a ruggedized version enables the use of all the functionality of the Cisco technology in harsh environmental operating conditions.

The LMIPT-41 offers five programmable line keys. The keys can be configured to support either multiple directory numbers or call features such as speed dial. Productivity can be boosted by handling multiple calls for each directory number, using the multi call-per-line feature. Fixed function keys provide one-touch access to applications, messaging, the directory, as well as regular call features such as hold/resume, transfer, and conference. The backlight acoustic keys provide flexibility for audio path selection and switching.

KEY FEATURES

- The OPTOKON LMIPT-41 offers a 5-inch high-resolution (800 x 480) widescreen VGA backlight color display. Localized language support, including right-to-left on-screen text, meets the needs of global users.
- The phone supports a built-in Gigabit Ethernet switch for PC connection.
- Support for Cisco EnergyWise™ technology makes the IP phone more energy-efficient and eco-friendly; the phone is qualified by the Energy Star organization.
- D38999 connectors types for secure cable connection.
- PoE – PD (powered device) or external power supply.
- Stand alone or wall mount version can be ordered.
- Light and sound signaling of ringing

DETAILED SPECIFICATIONS

- System board Cisco IP Phone 8841
- Graphic display 800 × 480, 24-bit color, 5-inch WVGA display provides scrollable access to call features and text-based XML applications

The phone has the following keys:

- | | |
|--|--|
| • Line keys, Soft keys | • Messaging, Application, and Directory keys |
| • Back and release keys | • Standard keypad |
| • Four-way navigation and select keys | • Volume-control toggle key |
| • Hold/Resume, Transfer, and Conference keys | • Speakerphone, headset, and mute keys |

Audio codec support: G.711a-law and μ -law, G.722, G.729a, Internet Low Bit rate Codec (iLBC), and Internet Speech Audio Codec (iSAC)

Ethernet switch and PoE

- An internal 2-port Cisco Ethernet switch allows for direct connection to a 10/100/1000BASE-T Ethernet (IEEE 802.3i/802.3u/802.3ab) through an RJ-45 interface with single LAN connectivity for both the phone and a co-located PC.
- The system administrator can designate separate VLANs (IEEE 802.1Q) for the PC and phone, providing improved security and reliability of voice and data traffic
- IEEE Power over Ethernet class 2.
- The phone is compatible with both IEEE 802.3af and 802.3at switchblades and supports both Cisco Discovery Protocol and Link Layer Discovery Protocol - Power over Ethernet (LLDP-PoE).

Network features

- Session Initiation Protocol (SIP) for signaling
- Session Description Protocol (SDP)
- IPv4 and IPv6
- User Datagram Protocol (UDP) (used only for Real-Time Transport Protocol [RTP] streams)
- Dynamic Host Configuration Protocol (DHCP) client or static configuration
- Gratuitous Address Resolution Protocol (GARP)
- Domain Name System (DNS)
- Trivial File Transfer Protocol (TFTP)
- Secure Hypertext Transfer Protocol (HTTPS)
- VLAN
- Real-Time Transport Protocol (RTP)
- Real-Time Control Protocol (RTCP)
- Cisco Peer-to-Peer Distribution Protocol (PPDP)
- Cisco Discovery Protocol
- LLDP (including LLDP-MED)
- Switch speed auto-negotiation

Physical dimensions and weight:

- Dimensions: 251 x 266 x 46 mm
(HxWxD) excluding foot stand and handset
- Weight: 2.75 kg (with handset)
- Color: olive green (standard)
black (handset)
- IP 65 protection

EMC – Electromagnetic compatibility:

ČOS 599902, 4th edition (MIL-STD-461G)

- Radiated emissions: RE 102;
- Conducted emissions: CE 102;
- Susceptibility to interfering fields: RS 103
- Susceptibility to line-borne interference: CS 114

Accessories:

Standard:

- Manual
- Foot stand (stand alone version)
- LAN cable

Options:

- 3PCC FW
- Wall-mount version
- D38999 multipin connectors
- CUCM license
- LMIPT-41-PSAC-CE, AC/DC adaptor, Power supply for non-PoE deployments, EU cord
- LMIPT-532 Headset
- Light and buzzer for signaling of ringing

Order code:

LMIPT-41(WM)-(3PCC)-(D3) Rugged IP Phone set

WM wall mount version (without foot stand)

3PCC 3rd party control, multiplatform phone FW supported platforms: Asterisk, Broadcloud, Broadsoft, Centile, Metaswitch

D3 side panel with D38999 connectors

Security features

- Secure boot
- Secure credential storage
- Device authentication
- Configuration file authentication and encryption
- Image authentication
- Random bit generation
- Hardware cryptographic acceleration
- Certificate Authority Proxy Function (CAPF)
- Manufacturer-Installed Certificates (MIC)
- Locally Significant Certificates (LSC)
- Ethernet 802.1x supplicant options: Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST) and Extensible Authentication Protocol-Transport Layer Security (EAP-TLS)
- Signaling authentication and encryption using TLS
- Media authentication and encryption using SRTP
- HTTPS for client and server
- Secure Shell (SSH) Protocol server
- SSL-based VPN client

Environmental:

- Temperature: operating: -25 to +55 °C
storage: -40 to +65 °C
- Humidity: MIL-STD-810G Method 507.5, 24 h test cycles

Mechanical:

- ČOS 999902, Ed.3, annex 7A tactical wheel vehicle
idt AECTP-400, Ed. 3 Figure A-2



Side panel with D38999 multipin connectors



Side panel with MRJ (RJ45) connectors



LMIPT-41WM – designed for wall installation:

- Four threaded mounting holes at rear panel
- Blind nut thread M6, 10 mm depth

LMIPT-532 Headset

