KAREL

KAREL IP204P IP PHONE

IP PHONE WITH 4 LINES & HD VOICE & COLOR-SCREEN LCD & POE & DSS KEYS

- **4 SIP Lines**
- **2.8 inch (320x240) color-screen LCD**
- **HD Voice**
- **2xLAN, POE**
- **Handset(HS) / Hands-free(HF) / Headphone(HP) mode**
- **Desktop / Wall-mount installation**

Karel IP204P is a high-end enterprise desktop phone which comes with an intelligent DSS Key-mapping LCD to increase enterprise users' productivity at a cost-effective price. Karel IP204P offers advanced functionality and easy user interface for making interaction easier and maximizing efficiency. Operating with Karel IP PBXs and other SIP compliant products, KAREL IP204P provides uninterrupted communication in anywhere with Internet connection with its aesthetic design, full-duplex hands free feature and its other differentiating features.

Generic
- 4 SIP Lines
- HD Voice

- POE Enabled
- 2 LCDs (Main + DSS)
- Handset(HS) / Hands-free(HF) / Headphone(HP) mode (EHS support for Plantronics headsets)
- Intelligent DSS Keys
- Desktop / Wall-mount installation
- Optional External Power Supply
- Economical and Environmental friendly package
- Industrial Standard Certifications: CE/FCC

Call Features
- Call out / answer / reject
- Mute / Unmute (microphone)
- Call Hold / Resume
- Call Waiting
- Intercom
- Caller ID Display
- Speed Dial
- Anonymous Call (Hide Caller ID)
- Call Forwarding (Always/Busy/No Answer)
- Call Transfer (Attended/Unattended)
- Call Parking/Pick-up (depending on server)
- Redial/Auto-Redial
- Do-Not-Disturb (per line / per phone)

- Auto-Answering (per line)
- Voice Message (on server)
- Local 3-way Conference
- Hot Line, Hot-Desking

Phone Features
- Phonebook (500 entries)
- Remote Phonebook (XML/LDAP)
- Call log (100 entries, in/out/missed)
- Black/White List Call Filtering
- Voice Message Waiting Indication (VMWI)
- Programmable DSS/Soft keys
- Network Time Synchronization
- Action URL / Active URI

Audio
- HD Voice Microphone/Speaker (Handset/Hands-free, 0 ~ 7KHz Frequency Response)
- Wideband ADC/DAC 16KHz Sampling
- Narrowband CODEC: G.711a/u, G.723.1, G.726-32K, G.729AB
- Wideband CODEC: G.722
- Full-duplex Acoustic Echo Canceller (AEC) – Hands-free Mode, 96ms tail-length

- Voice Activity Detection (VAD) / Comfort Noise Generation (CNG) / Background Noise Estimation (BNE) / Noise Reduction (NR)
- Packet Loss Concealment (PLC)
- Dynamic Adaptive Jitter Buffer up to 300ms
- DTMF: In-band, Out-of-Band – DTMF-Relay(RFC2833) / SIP INFO

Networking
- Physical: 10/100Mbps Ethernet, dual bridged port for PC bypass
- IP Configuration: Static / DHCP / PPPoE
- Network Access Control: 802.1x
- VPN: L2TP (Basic Unencrypted) / OpenVPN
- VLAN
- QoS

Protocols
- SIP2.0 over UDP/TCP/TLS
- RTP/RTCP/SRTP
- STUN
- DHCP
- PPPoE
- 802.1x
- L2TP (Basic Unencrypted)
- OpenVPN
- SNTP
- FTP/TFTP
- HTTP/HTTPS
- TR069

Deployment & Maintenance
- Auto-Provisioning via FTP / TFTP / HTTP / HTTPS / DHCP OPT66 / SIP PNP / TR069
- Web Management Portal
- Web-based Packet Dump
- Configuration Export / Import
- Phonebook Import/Export
- Firmware Upgrade
- Syslog

Physical Specifications
- Main LCD x1: 2.8 inch (320x240) color-screen LCD
- DSS Key-mapping LCD x1:color-screen LCD
- Keypad: 38 keys, including
  4 Soft-keys
  6 Function keys
  5 Navigation keys
  12 Standard Phone Digits keys
  3 Volume Control keys,
  Up/Down/Mute(Microphone)
  1 Hands-free key
  6 DSS Keys with tri-color LED
  1 Page-Jump/Configuration (PJC) key
- HD Hands-free Speaker (0 ~ 7KHz) x1
- HD Hands-free Microphone (0 ~ 7KHz) x1
- HD Handset (RJ9) x1
- Standard RJ9 Handset Wire x1
- 1.5M CAT5 Ethernet Cable x1
- RJ9 Phone Jacket x2: Handset x1, Headphone x1
- RJ45 Ethernet Jacket x2: Network x1 (802.3AF POE Class 2 Enabled), PC x1 (Bridged to Network)

- Main Chipset: Broadcom
- DC Power Input: 5V/1A
- Power Consumption: Idle – ~ 1.3W, Peak – ~4.3W
- Working Temperature: 0° ~ 40℃
- Working Humidity: 10 ~ 65%
- Dual-Functional Back Rack x1: Desktop Stand / Wall-mount
- Color: Black
- Package Dimensions: 285x270x65mm (W x H x L)

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