

IPV50 IS A NEW GENERATION IP PBX DESIGNED FOR SMALL OR MIDDLE SIZED BUSINESSES.

THANKS TO THE AUDIO, DATA AND VIDEO MONITORING AND MANAGEMENT FEATURES PLUS VALUE ADDED APPLICATIONS IPV50 OFFERS, IT MEETS THE CONTINUOUSLY CHANGING AND DEVELOPING NEEDS OF THE BUSINESSES



IPV50 PROVIDES A USER AND ENVIRONMENT FRIENDLY COMMUNICATION INFRASTRUCTURE WITH ITS RICH FEATURES AND WIDE CAPACITY OPTIONS AND APPLICATIONS SUCH AS IP COMMUNICATION, UNIFIED COMMUNICATION, REMOTE OFFICE AND MOBILE COMMUNICATIONS

IPV50 CREATES EFFICIENCY, SAVINGS AND A GREAT DIFFERENCE IN WORK PROCESSES OF THE BUSINESSES WITH ITS FLEXIBLE AND INTEGRATED STRUCTURE.

IPV50 ALLOWS USING IP, DIGITAL AND ANALOG EXTENSIONS AND TERMINALS THAT SUPPORT THESE STRUCTURES IN THE SAME SYSTEM WITHOUT THE NEED FOR AN ADDITIONAL INFRASTRUCTURE. THEREFORE, IT IS POSSIBLE TO ACCESS AND COMMUNICATE WITH PBX EXTENSIONS FROM ANYWHERE AND AT ANY TIME.

OPERATING SYSTEM, PROVIDES OPEN SOURCE SOFTWARE ARCHITECTURE, AND TAPI AND CSTA SUPPORT. THUS, MANY APPLICATIONS ARE PROVIDED AS STANDARD ON THE PBX, AND ADDITIONAL APPLICATIONS MAY BE INTEGRATED TO THE PBX EASILY.

KAREL IPV50 PBX SOLUTION ALLOWS AUDIO-DATA-VIDEO COMMUNICATION THROUGH SINGLE INFRASTRUCTURE.

EXTENSIONS OF KAREL IPV50 PBX CAN CONTINUE TO COMMUNICATE WITH THEIR EXTENSION NUMBERS REGARDLESS OF THE LOCATION.

EXCHANGE TECHNOLOGY

IP COMMUNICATIONS

IPV50 provide advanced communication solutions such as Voice-over-IP, Fax-over-IP*, voice recording, conference call, video call, voicemail to e-mail, monitoring presence, instant messaging, remote extension and remote office. Voice messages, call records and system fault notifications can be forwarded to the specified e-mail addresses with the aid of unified voicemail and e-mail applications. It is possible to access such data and voicemails from any location. Smart mobile phones with mobile extension software and VoIP support may be defined as an extension to the system. Thus, IPV50 users may reply incoming calls with these mobile phones, and listen to their voicemail and use all IP services provided by the PBX.

UNIFIED COMMUNICATION APPLICATIONS

Unified communication applications allow employees to communicate with each other and with customers and suppliers easily, efficiently and rapidly and optimize the business processes.

PRESENCE

Presence allows other extensions to see whether the extension is available, busy, online/offline and the special status that is set by the person himself/herself with a text entry. Thanks to the Presence feature, it becomes possible to access the relevant person with the quickest and most suitable method.

INSTANT MESSAGING

Extensions can communicate with each other instantly in written form with instant messaging feature; thus, the communication is performed very quickly.

VIDEO CALL

All IP extensions connected to IPV50 can make video calls between themselves or through external IP lines using videophones, special sets or smart phones.

CONFERENCE

The conference feature is a conversation platform that provides multiple participation option for extensions. 4 users may make 4 different conference calls simultaneously. This platform allows making conference calls with participants from remote locations and thus reduces the costs and time spent for meetings.

IP FAX SUPPORT*

T38 Fax-Over-IP support allows high-quality facsimile transmissions over the IP lines and eliminates the requirement of using PSTN lines.

REMOTE OFFICE APPLICATIONS

Multiple IPV50 PBXs can be connected to each other over IP so that company communication networks with higher capacities can be established. Any extension in a branch office can get connected to the exchange in the head office directly over internet with an IP phone, soft-phone, WiFi phone, IP DECT phone or a VoIP enabled smart phone without the need for an additional equipment. Thus, extensions registered in the PBX can call each other with their extension numbers.

IPV50 SUPPORTS UP TO 100 IP EXTENSIONS AND EXTERNAL LINES. TDM CHANNEL CAPACITY IS 56 FOR A SINGLE SYSTEM. CAPACITY EXPANSIONS ARE PERFORMED BY ADDING MODULES AND LICENSES.



IPV50

CENTRAL PHONEBOOK

IPV50 has a common memory, on which the phone numbers are recorded. Common memory is open to all authorized extensions and access to it can be restricted on the basis of authorization levels.

MOBILE COMMUNICATION APPLICATIONS

IPV50 provide mobility in business life. IPV50 provide users the flexibility to continue communication and remain available at any location with Internet connection as an exchange extension by means of a soft-phone or VoIP enabled smart phone over 3G, WiFi or XDSL connections.

And, there is a single numbering plan covering the entire system. With an IP DECT system that can be integrated to the exchange, it is possible to use the same handset without changing its extension number both in the head office and in any other location containing a base station integrated with the PBX.

New generation VoIP enabled smart phones with mobile extension applications allow making calls as an IP extension of the exchange, answering incoming calls, listening to voicemail and utilizing all exchange services offered to IP extensions.

AUDIO QUALITY AND SECURITY

HD AUDIO QUALITY

IPV50 features advanced audio algorithms. Thus, perfect audio quality far beyond the expectations is obtained with standard terminals with HD audio quality support and Karel HD terminals.

UNINTERRUPTED VoIP COMMUNICATION AND STABLE AUDIO OUALITY

PBX has the capability to detect package losses caused by external conditions and to divert the communication to an alternative route (e.g. PSTN) until satisfactory quality is obtained in order to provide a stable audio quality. This ensures uninterrupted communication and stable audio quality in VoIP applications. Alternative route definitions can be configured according to VoIP for outgoing calls or quality of service or both.

QoS SUPPORT

If the same network infrastructure is used for both audio and data communication, QoS support provided by IPV50 PBX ensures continuity of the audio quality by monitoring the performance on the network and taking necessary precautions.

SUPERIOR SECURITY IN COMMUNICATIONS WITH THE ENCYRIPTION SUPPORT

IPV50 provides high level of security in audio communications with the standard SRTP/TLS encryption without the need for VPN installation.

VALUE ADDING UNIFIED SOLUTIONS

IPV50 also provides value added solutions for increasing the efficiency and effectiveness of the business.

ROBOT OPERATOR AND VOICEMAIL APPLICATIONS

IPV50's advanced robot operator/voicemail structure ensures that incoming calls are distributed to the extension or department called interactively without any intervention by the operator.

Voicemails can be directed to e-mail addresses of the extensions. Thus, extensions can access their voicemail from anywhere with e-mail access.

Incoming calls can be optionally directed to the operator's voicemail box with the caller ID information in specified intervals, i.e. out of working hours.

There are various scenarios available such as Greeting Message, Busy, Missed, Operator Busy, Not Recorded in the System, Closed to Calls from Robot Operator etc; and also it is possible to prepare different scenarios in addition to the greeting messages on the PBX using specially developed tools.

IPV50 provides robot operator features to the user without any need for any additional equipment thanks to the special IVR application available in its software. This feature provides basic robot operator features to the user free of charge, and ensures advantage in the investment costs of the system when there is no need for advanced applications.

CALL RECORDING CAPABILITIES

Calls of a required extension can be automatically recorded thanks to the automatic call record feature integrated to the system without any need for an additional equipment. Calls can be sent as an e-mail to the e-mail address of the extension or any other e-mail address. Besides that, extensions can record calls by marking the call they want to record during the call, and receive this record as an e-mail at the end of the call. This system is designed to manage the call records conveniently and to access the records from anywhere with e-mail access, and does not require any additional equipment.

INTERGRATED GATEWAY BOARD

Media-Gateway boards that can be optionally installed on IPV50 serve for converting the voice signals between IP (SIP/H323) and analog/digital lines of the PBX and optimizing the audio quality by using special algorithms. Thus, there is no need to use an external gateway, and you can save the costs for additional devices.

SOLUTIONS THAT PROVIDE COST ADVANTAGE

WEB BASED MANAGEMENT

IPV50 can be managed conveniently from anywhere by using a standard web browser thanks to its web server. Remote management feature provides savings in support and management costs.

Extensions are authorized by user, operator and administrator authorization levels, and connect to the "Personal Assistant" web interface with their passwords. They can change the parameters, personal forwarding settings, voicemail settings, personal phonebooks within their authorization levels.

It is always possible to manage both DDIVR applications and EIVR applications, which are integrated to the system and free of charge, using the web based PBX management interface remotely, and perform all settings and installations from anywhere and at any time. Thus, these modifications are performed more quickly and with less costs.

CALL RECORD SOFTWARE

NetCM and web based WebCM software ensures keeping call records and generating extension specific reports. It is possible to keep the audio traffic of your company under your control and create economic solutions suitable for your requirements.

REMOTE OFFICE SUPPORT AND IP EXTENSION APPLICATIONS

IP phones on a remote branch office become an extension of the central PBX over internet without the need for any additional devices. Calling the branch offices over the extensions provide economy in communication costs.

Making calls over the PBX as an extension from anywhere using devices like softphones, mobile phones with VoIP support etc. decreases the communication costs.

IP TRUNK/OPERATOR APPLICATIONS

With IPV50, it is possible to connect to the operators that provide VoIP service directly over IP Trunk. As the VoIP rates are cheaper than PSTN rates, this allows a great economy in communication costs.

SPECIFIC CALL TIME CONFIGURATIONS

Calls made from any extensions may be restricted. It is possible to specify the total time for external lina calls. Line is deactivated when this time is exceeded and directed to an alternative route.

This feature allows control on the usage of advantageous rates of GSM operators defined by a mminute limit. When the defined total call time is exceeded, the line is forwarded to another selected line.

LEAST COST ROUTING

LCR feature, which is flexible and programmable based on the extension, provide economy in communication costs.

CONFERENCE

Conference feature helps to shorten the meeting times, and decreases transport costs.

GSM TERMINALS

These terminals act as a bridge between the PBX and GSM network; thus ensures that calls made from phones connected to the PBX in the company to the mobile phones are charged with cheaper GSM call rates.

OTHER PERIPHERALS

Net-Console:

This CTI (computer to telephony integration) software integrates two devices that extension users use in office environment (telephones and computers) and ensures control of audio communication over computers.

GT SMS server:

This Windows based server software communicates with Karel GSM Gateway (FCT) products and ensures sending SMS from the computers on the network that the computer running this software is connected to, and receiving incoming SMS and operator broadcast messages.

IPV50 also provides value added solutions for increasing the efficiency and effectiveness of the business.

KAREL IPV50 PBX PROVIDES VARIOUS FEATURES TO ALLOW YOU MEET YOUR DAILY COMMUNICATION REQUIREMENTS IN THE EASIEST AND MOST EFFECTIVE WAY.

IPV50 EXTENSIONS CAN AUDIO-VISUALLY COMMUNICATE USING IP VIDEOPHONES.

AESTHETIC EQUIPMENT THAT CAN BE USED WITH IPV50

• Operator/Special Phone Sets

Special sets that are designed for operators and users, and that provide convenience and speed in using the system features:

NT10D, NT30D, ST30, ST26, NT32I, NT42I, NT62I.

• Direct Access to Extension

Phone units that provide convenience and speed in accessing PBX features, and allows monitoring of external line and extension statuses. DSS3L-24, DSS3K-24 direct access to extensionfor NT30D, NT32I, NT42I and NT62I. DSS25-28 direct access to extension for ST26, ST30.

• Standard Telephones

Fulya, Ladin

• Caller ID Telephones

TM120

• Wall Type Telephones

Standard TM900 and TM910 caller ID telephone.

• IP Phones

Functional and elegant IP phones that can operate as an extension to the PBX in the central office from anywhere over the network and internet, and compliant with the all PBXs with SIP support:

NT32I, NT42I, NT62I, IP111, IP112, IP116, IP118.

• IP Videophones

IP phones that provide video calls besides the audio communication: NT62I

• IP Softphones

These software based IP phones provide solutions for your various communication requirements such as audio call, video conference, instant messaging and presence at any location with a network or internet connection. YT500.

USB Handset

Mini handset that helps using the features of YT500 and that can be connected to the computer via USB port: UT101.

Operator Headsets

Aesthetic and ergonomic operator headsets that allow the using the phone and computer simultaneously: GLA101, GLS201, GLS300, GLA200.

• IP DECT

Flexible and high performance solutions, IP DECT Base stations and hand units that use the secure DECT standard and VoIP technology together for the growing wireless communication requirements of your business.







DE260 DB260

WiFi

SOF	FTPHONE	YT510	YT520	YT530
Voice	e Call	0	•	•
Video	o Call	-	•	•
Statu	us Monitoring	•	•	•
GEN	ERAL FEATURES			
Num	ber of Active Accounts	2	10	10
Num	ber of Call Channels	2	3	6
Audio	o Converters	G.729, G.711u/a	G.729, G.711u/a, G.722, iLBC, EG711a, EG711u, ISAC, IPCMWB	G.729, G.711u/a, G.722, iLBC, EG711a, EG711u, ISAC, IPCMWB
SIP C	Compatibility	•	•	•
Audio	o and Video Prioritization with QoS	0	•	•
Encry	yption (TLS-SRTP)	-	•	•
USB	Plug-and-Play Feature	•	•	•
Interr	nal Phonebook	•	•	•
Micro	osoft Outlook Integration	•	•	•
Num	ber of Video Conference Channels	0	2	4
Video	Converters	-	H263-1998, H263, LSVX, H264	H263-1998, H263, LSVX, H264
Voice	e Call Record	•	•	•
Num	ber of Audio Conference Channels	2	3	6
MINI	MUM REQUIREMENTS			
Opera	ating Systems		ndows 7 Enterprise, Windows XP Professior Enterprise, Windows Server 2003 Enterpris	
Minin	num RAM Reguirement		512 MB.	

Minimum RAM Requirement 512 MB.
Minimum Harddrive Space 100 MB.
CD-ROM Drive Required

IP Network ConnectionBroadband, LAN, WirelessSound Board SpecificationsFull-Dublex, 16 bit



	DUONECETO		
	PHONE SETS	NT10D	NT30D
-	GENERAL FEATURES	DIGITAL PHONE SETS	OPERATOR/ PROPRIETARY PHONE SET
	Display Type	2 rows x 20 characters	8 rows x 24 characters
	Display Type	2 TOWS X 20 Grid deters	160x100 pixels graphic
	Operator Headset Connectivity	-	-
	Wall Installation	-	•
	Adjustable Display Angle	-	•
	Adjustable Body Angle	-	•
	Headphone Support	-	•
	PHONE FEATURES		
	Handsfree	Half Dublex	Full Dublex
	Bluetooth	-	Optional
	Phonebook Capacity	50	120
	Displaying Names of Callers Recorded in the Phonebook	•	•
	Calling by Name from the Phonebook	•	•
	Integration with Net Console CTI Application	•	•
	USER INTERFACE		
	Display Illumination	-	•
	Incoming Call Lamp	•	0
	Volume Control Keys	Handsfree, muting outgoing audio,	Handsfree, muting outgoing audio,
		handsfree volume up and down	handsfree volume up and down, headphone
	Special Function Keys	Voicemail, redial	Park, menu, phonebook, call records,
			function, voicemail, redial, conference, transfer
	Number of Fast Access Keys	8	-
	Number of Soft Keys	4	4
	Navigator Key	-	•
	Message Warning Light	0	•
	Handsfree Warning Light	•	•
	Headphone Light	-	•
	DSS Support	-	Optional (max. 5 DSS)



Black / White

DSS

Supported DSSs

Color Alternatives



24 Keys

DSS3L-24, DSS3K-24

Black / White

NT10D NT30D

ST30 ST26

OPERATOR/ PROPRIETARY PHONE SET	OPERATOR/ PROPRIETARY PHONE SET
8 rows x 24 characters	4 rows x 20 characters
160x100 pixels 4" graphic display	LCD
-	•
-	-
•	-
-	-
0	•
Half Dublex	Half Dublex
Optional	-
40	50
•	•
0	•
0	•
0	-
-	-
Handsfree, muting outgoing audio,	Handsfree, muting outgoing audio,
handsfree volume up and down	handsfree volume up and down
Park, phonebook, menu,	Park, phonebook, menu,
transfer, flash and redial	transfer, flash and redial
16	16
4	4
-	-
	-
0	•
-	-
Optional (max. 1 DSS)	Optional (max. 1 DSS)
28 Keys	28 Keys
DSS25-28	DSS25-28
Black	Black





ST30 ST26

IP PHONES	IP111	IP112	IP116
GENERAL FEATURES			
Display Type	3 rows LCD	132X64 gray toned	320x160 gray toned
Display Type	(2 rows x 15 characters + 1 icon row)	(4 levels) LCD	(4 levels) LCD
Ethernet Port	2x (LAN/WAN)	2x (LAN/WAN)	2x (LAN/WAN)
PoE	Optional	Optional	Optional
Operator Headset Connectivity	•	•	• •
DSS Module Addition	_		•
Bluetooth	-	-	
PSTN Output	-	-	-
USER INTERFACE		-	-
Color Display			
	-	-	-
Touchscreen Display	-	•	-
Display Illumination	•	•	•
Volume Control Keys			
Integrated DSS Keys	-	•	10
Message Warning Light	· · · · · · · · · · · · · · · · · · ·	·	•
PHONE FEATURES	CID 1 CID 0		CID 1 CID 0
Protocol	SIP v1, SIP v2	SIP v1, SIP v2	SIP v1, SIP v2
SIP Accounts	2	3	6
Handsfree	Full Dublex	Full Dublex	Full Dublex
Phonebook Capacity	300	300	300
Export/Import Phonebook	•	•	
Black List	•	•	•
Installing Additional Ring Tones	•	•	•
Installing Logo the LCD	•	•	•
Automatic Update	•	•	•
WAN Static IP/DHCP/PPPoE	•	•	•
TLS, SIPS, SRTP	•	•	•
Web Interface	HTTP/HTTPS	HTTP/HTTPS	HTTP/HTTPS
xML Phonebook (Central Phonebook)	-	•	•
BLA/BLF, Voicemail, SMS	Voicemail	BLF, Voicemail, SMS	BLA/BLF, Voicemail, SMS
Hotdesking	-	•	•
Proprietary Features	-	-	-
AUDIO			
HD Audio Quality	•	•	•
Codecs	G.722, G.711A, G.711U, G723,	G.722, G.711A, G.711U, G723,	G.722, G.711A, G.711U, G723,
	G729AB, ILBC	G729AB, ILBC	G729AB, ILBC
QoS	802.1p/Q, TOS/DSCP	802.1p/Q, TOS/DSCP	802.1p/Q, TOS/DSCP
VIDEO			
Camera Head	-	-	-
Video Camera Features	-	-	-
Analog Video Output	-	-	-
Video Codecs	-	-	-
Color Alternatives	Black	Black	Black







IP111 IP112 IP116

IP118	NT32I	NT42I	NT62I
4.3" TFT-LCD, 16.7 M Colors	160X100 gray toned	480X272 24 Bit	480X272 24 Bit
	(4 levels) LCD	Color touchscreen TFT display	Color touchscreen TFT display
2x Gbit (LAN/WAN)	2x (LAN/WAN)	2x (LAN/WAN)	2x (LAN/WAN)
Optional	Optional	Optional	Optional
•	0	•	•
•	•	•	-
-	Optional	Optional	Optional
-	-	-	Optional
•	-	•	•
-	-	•	•
•	•	•	•
•	0	•	•
10	6	-	-
•	0	•	•
SIP v1, SIP v2	SIP v1, SIP v2	SIP v1, SIP v2	SIP v2.0 (RFC3261)
6	3	3	10
Full Dublex	Full Dublex	Full Dublex	Full Dublex
1000	128	128	128
•	0	•	•
•	-	•	-
•	•	•	•
•	•	•	•
•	•	•	•
•	Static IP/DHCP	Static IP/DHCP	Static IP/DHCP
•	-	-	-
HTTP/HTTPS	HTTP	HTTP	HTTP
•	-	-	-
BLA/BLF, Voicemail, SMS	BLF, Voicemail	BLF, Voicemail	BLF, Voicemail
•	-	-	-
-	•	•	•
•	•	•	•
G.722, G.711A, G.711U, G723,	G.722, G.711A, G.711U, G723,	G.711, G.723, G.726, G729,	G.711, G.723, G.726, G729,
G729AB, ILBC	G729AB	G722.2, ILBC, G.722	ILBC, G722, SPEEX
802.1p/Q, TOS/DSCP	802.1p/Q, TOS/DSCP	802.1p/Q, TOS/DSCP	802.1p/Q, TOS/DSCP
-	-	-	Moveable Camera Head
-	-	-	Adjustable 300K pixel CMOS
-	-	-	•
-	-	-	H.263, H.263+, H.264
Black	Black / White	Black / White	Black / White



IP118







NT32I NT42I

SERVICES PROVIDED BY THE PBX

PBX SERVICES

- Message box for busy or unanswered calls
- "I'm not available" message record
- Listening to voicemails
- Leaving a message to extension
- Message alerting for emergency call
- Intervention
- Queuing
- Parking
- Call forwarding
- Extensive call forwarding
- Group call forwarding
- Authorised call pick up for forwarded calls
- Call hunting
- Group call hunting
- Conference
- Removing from conference
- Call recording
- Automatic redialling
- Paging
- Group paging
- Forced account coded call

IP extensions registered on the PBX can use all standard SIP services.

PBX SERVICES THAT CAN BE USED BY SIP EXTENSIONS

- Message box for busy or missed calls
- "I'm not available" message record
- Listening to voicemails
- Leaving a message for extension
- Queuing
- Parking
- Extensive call forwarding
- Call hunting
- Group call hunting
- Automatic redialling
- Dropping an external line in use
- External line marked access
- Do not disturb
- Executive secretary feature
- Night mode switching
- Entering a number to the common memory
- Calling from common memory

- Entering a number to the individual memory
- Calling from individual memory
- Programming
- Authorization transfer
- CLIR
- COLR
- Door opening
- Clock setting
- Date setting
- Changing password
- Phone lock
- Reminder
- Reminding by message
- Waking up
- Headphone user
- Abusing calls
- Total charging list
- Deleting records from call records
- Extension call record list
- Call record stopping
- Call record counter resetting

VARIOUS INTERFACES

- Analog external line and extension modules
- UPN, PRI, hybrid modules
- IP modules
- SIP external line
- SIP extension
- H.323 external line
- Media Gateway

CONFIGURATION MODULES

- Analog extension board (0/8)
- Analog external line board (8/0)
- Analog external line board (4/0)
- Digital extension board (0/8UPN)
- 2 external / 4 analog extension + 2UPN hybrid boards (2/4+2U)
- ISDN PRI (1S2/0)
- 2 external / 4 analog extension hybrid boards (2/4)
- Analog extension board (0/4)
- ISDN BRI board (4T0/0)
- 12 channels media gateway board
- 24 channels media gateway board
- EVM Voicemail 8 Channels

RICH APPLICATIONS OFFERED BY KAREL IP PBX

- Supports VoIP (SIP ve H.323), analog and digital interfaces in external lines and IP (SIP, PIP), analog and digital terminals in extensions
- Capability to use PBX features in special IP extensions
- Accessing the extensions from anywhere, whether inside or outside the office, at any time and in the shortest time possible
- Uninterrupted mobile communications with mobile users
- Capability to use work phone from may terminals such as DECT, GSM or softphone on a PC
- Unified communication methods such as using audio, video and e-mail together
- Convenient and fast management over internet with web based PBX management software
- User specific settings such as personal management pages and greeting messages

TECHNICAL SPECIFICATIONS

INITIAL CAPACITY 0/0

NUMBER OF BOARD SLOTS 7

CAPACITY IN A SINGLE SYSTEM (TDM)

56 digital and analog lines in total (max. 24 digital lines)

IP CAPACITY 100 lines

BASIC CAPACITY EXPANSION OPTIONS

EXP50 (0/8), Analog Extension Module for 8 extensions with Caller ID

EXP50 (0/4), Analog Extension Module for 4 extensions with Caller ID

EXP50 (8/0), Analog External Line Module for 8 lines with Caller ID (FSK and DTMF)

EXP50 (4/0), Analog External Line Module for 4 lines with Caller ID (FSK and DTMF)

EXP50 (0/8U), Digital Extension Module for 8 proprietary digital phones:

EXP50 (1S2/0), ISDN PRI Module for E1-PRI interface (30 channels)

EXP50 (2/4+2U), Hybrid Module for 2 external lines and 4 extensions with CID, 2 proprietary digital phones EXP50 (2/4), Hybrid Module for 2 external lines and 4 extensions with Caller ID

EXP50 (4T0/0), ISDN BRI Module for 4 ISDN-BRI lines EXP50 MG 12 12-channels VoIP

EXP50 MG 24 24-channels VoIP

OTHER TECHNICAL SPECIFICATIONS

RISC architecture, POWERPC (80 MIPS)
Embedded real time LINUX operating system
Unblocked system with a switching capacity of 256x256
Capacity increase by remote system with VoIP or adding extensions

SIP proxy server

H323 trunk that can operate simultaneously with SIP IP phone, soft-phone, videophone, IP DECT and all SIP compliant terminals

Perfect audio quality far beyond the expectations with terminals with HD audio quality support

G.711 A/U, G.729AB, G.723.1 and iLBC and codec support

T.38 fax-over-IP support*

8-channels automatic greeting

2, 4, 6, 8-channels advanced greeting scenarios e-mailing voicemails

Web based embedded management and maintenance server Net-CM call record system support

Net-CM web based call record and reporting system support CTI applications with standard APIs (CSTA-XML, CCXML, VoiceXML, TAPI)
Application development for Windows NT/2000/XP and Linux 19" metal chassis with a height of 3U Installation to 19" cabinet or wall

MFTAL CABINET

AMBIENT CONDITIONS

0 C° to +40 C°, 10% to 80% uncondensed humidity

DIMENSIONS

36.5 cm (d) x 11 cm (h) x 42 cm (w)

WEIGHT 6 kg

PLASTIC CABINET

AMBIENT CONDITIONS

0 C° to +40 C°, 10% to 80% uncondensed humidity

DIMENSIONS

16.2 cm (d) x 59 cm (h) x 30 cm (w)

WEIGHT 4.5 kg

FFATURES OF CONFIGURATION MODULES

8 Analog Extension Modules

Usage of long lines up to 11 km

Modem/fax tone detection

Sending and receiving DTMF

12khz / 16khz credit signal generation

Sending FSK or MF CallerID

Automatic line tests

Adjustable volume levels

8 Digital Extension Modules

Line length of 1.3 km

Usage of 2-wire cables

Usage of digital phone sets with various features

Analog External Line Module

Modules with 4 or 8 trunk lines

Polarity reversal detection

Type1 or Type2 CallerID support

DP calling support

Credit signal detection for charging

Adjustable volume levels

PRI Module

E1/T1/J1 long haul interface

E1(CEPT) PCM-30/ISDN-PRI

Full compliance with EURO ISDN, QSIG standards:

ETS 300 403, ITU-T Q931

ETS 300 402, ITU-T Q921

ETS 300 011

ISDN additional services

VoIP Media Gateway Module

Standard SIP protocols

IP extension/trunk support

IETF Session Initiation Protocol (SIP), RFC3261

Realtime Transport Protocol (RTP), RFC 3550

Realtime Transport Control Protocol (RTCP)

Session Description Protocol (SDP) RFC 2327

DTMF/Tone support while using media gateway

RFC 2833, SIP INFO or in-band DTMF detection, generation

Media gateway configuration over network

Audio Codecs and Algorithms

G711 A-law, U-law

G729A/B

G723.1

iLBC

Encryption with SRTP/TLS*

T.38 fax-over-IP*

Advanced dynamic jitter buffer

Packet loss compensation (PLC)

Central collection and querying of QoS statistics

Flexible capacity up to 72 channels with modular DSP boards

Echo prevention, G.168 compliant

Audio activity detection

Noise suppression, RFC3389

Automatic gain control

Voicemail Module

Voicemail service up to 8 channels

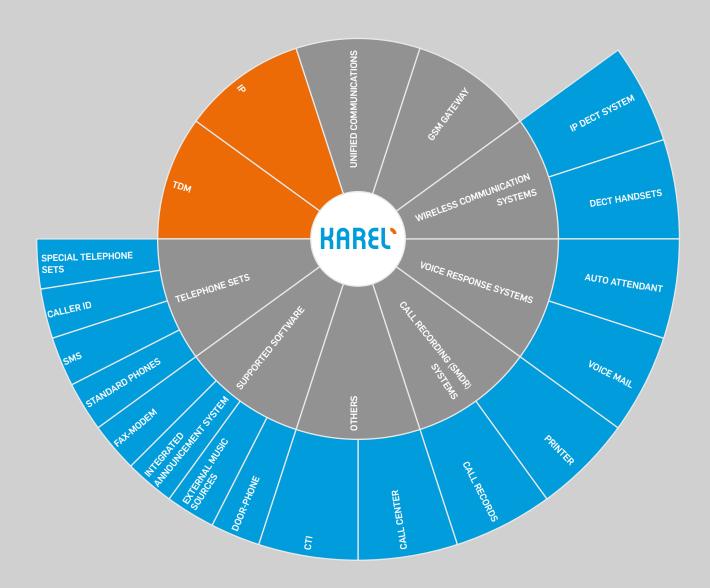
Audio recording

E-mailing of audio records

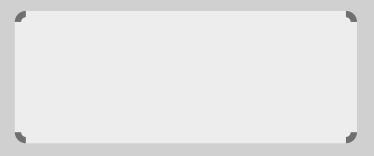
Online audio recording to NFS server

^{*} Please contact our sales department for detailed information about these features

^{**} Karel's right to make changes on the features specified in this booklet is reserved.



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