

System Capacity

Type		KX-TDE100	KX-TDE200
Maximum Trunks and Extensions	Total Number of Trunks	128	128
	Trunk (Physical Trunk Card)	120	128
	Trunk (Virtual Trunk Card*1)	64	64
	Total Number of Extensions	256	256
	Extension (Physical Extension Card)	160	256
Maximum Terminal Equipment	Extension (Virtual Extension Card*1)	128	128
	IP-Proprietary Telephone (IP-PT) and IP Softphone	128	128
	SIP Extension	128	128
	Telephone	256	256
	Single Line Telephone (SLT)	96	128
	KX-DT300, KX-T7600 Digital Proprietary Telephones (DPT)	128	256
	KX-T7560/KX-T7565 DPT	96	128
	Other DPT	32	128
	Analogue Proprietary Telephone (APT)	24	64
	IP-PT*2	192	192
	IP-PT *3 (supported by IP-EXT16 card)	96	128
	IP-PT *4 (supported by IPCMPR card)	128	128
	SIP Extension	128	128
	DSS Console	8	8
	Basic Cell Station (CS)	32	32
	High-Density Cell Station	16	16
	IP DECT Cell Station	16	16
	Portable Station (PS)	128	128
	Voice Processing System (VPS)	2	2
Doorphone	16	16	
Door Opener	16	16	
External Sensor	16	16	
External Relay	16	16	

Note: For non peer-to-peer calls via the DSP card, calls cannot be made or received when all of the card's resources are being used.

*1 Only 113 virtual trunk/extension card channels can be in use at any one time (except for peer-to-peer calls for IP extensions). For Virtual Trunks and Extensions, a DSP card is required. Maximum 1 card per system.

*2 KX-NT400 = 64

*3 KX-NT136, KX-NT265, and NT300 series

*4 KX-NT300 series and KX-NT265 (software version 2.00 or later only)

TDE100 TDE200 Pure IP-PBX



Option List

	Model	Description	
Power Supply Units (PSUs)	KX-TDA0103	L-Type Power Supply Unit	
	KX-TDA0104	M-Type Power Supply Unit	
	KX-TDA0108	S-Type Power Supply Unit (PSU-S)	
Main Processing card IPCMPR Option Cards	KX-TDE0101	IP Convergence Main Processing Card (IPCMPR)	
	KX-TDE0110	16-Channel VoIP DSP Card (DSP16) - Built-in: 4 x IP-Trunks + 8 x IP-PT Extensions	
	KX-TDE0111	64-Channel VoIP DSP Card (DSP64) - Built-in: 16 x IP-Trunks + 32 x IP-PT Extensions	
	KX-TDE0105	Memory Expansion Card (IPCMEC)	
	KX-TDA0196	Remote Card	
Physical Trunk Cards	KX-TDA0180	8-Port Analogue Trunk Card (LC0T8)	
	KX-TDA0181	16-Port Analogue Trunk Card (LC0T16)	
	KX-TDA0182	8-Port DID Card (DID8)	
	KX-TDA0183	4-Port Analogue Trunk Card (LC0T4)	
	KX-TDA0184	8-Port E&M Trunk Card (E&M8)	
	KX-TDA0188	E-1 Trunk Card (E1)	
	KX-TDA0189	8-Port Caller ID/Pay Tone Card (CID/PAY8)	
	KX-TDA0193	8-Port Caller ID Card (CID8)	
	KX-TDA0284	4-Port BRI Card (BRI4)	
	KX-TDA0288	8-Port BRI Card (BRI8)	
	KX-TDA0290	PRI Card (PRI 30)	
	KX-TDA0484	4-Channel VoIP Gateway Card (IP-GW4E)	
	KX-TDA0490	16-Channel VoIP Gateway Card (IP-GW16)	
	Physical Extension Cards	KX-TDA0143	4 Cell Station Interface Card (CSIF4)
		KX-TDA0144	8 Cell Station Interface Card (CSIF8)
		KX-TDA0170	8-Port Digital Hybrid Extension Card (DHLC8)
		KX-TDA0171	8-Port Digital Extension Card (DLC8)
		KX-TDA0172	16-Port Digital Extension Card (DLC16)
		KX-TDA0173	8-Port Single Line Telephone Extension Card (SLC8)
KX-TDA0174		16-Port Single Line Telephone Extension Card (SLC16)	
KX-TDA0175		16-Port Single Line Telephone Extension Card with Message Lamp Card (MSLC16)	
KX-TDA0470		16-Channel VoIP Extension Card (IP-EXT16)	
Other Physical Cards		KX-TDA0161	4-Port Doorphone Card (DPH4)
	KX-TDA0162	2-Port Doorphone Card (German Type)(DPH2)	
	KX-TDA0164	4-Port External Input/Output Card (EI04)	
	KX-TDA0166	16-Channel Echo Canceller Card (ECHO16)	
	KX-TDA0168	Extension Caller ID Card (EXT-CID)	
	KX-TDA0190	Optional 3-Slot Base Card (OPB3)	
	KX-TDA0192	2-Channel Enhanced Simple Voice Message Card (ESVM2)	
	KX-TDA0194	4-Channel Enhanced Simple Voice Message Card (ESVM4)	
	Cell Stations	KX-TDA0141CE	2-Channel Cell Station Unit Using a DHLC/DLC Card for DECT Portable Station
		KX-TDA0142CE	4-Channel Cell Station Unit Using a CSIF Card for DECT Portable Station
		KX-TDA0158	8-Channel High-density Cell Station Unit Using a DHLC/DLC Card for DECT Portable Station
KX-NCP0158		8-Channel IP Cell Station Unit (IP Newtork Connection)	
Doorphone	KX-T7765	Doorphone	
Compatible Telephones	KX-NT300 Series	KX-NT366/346/343 Option KX-NT305/303 and NT307	
	KX-DT300 Series	KX-DT346/343/333 Option KX-DT301/DT390/NT303 and NT307	
	KX-T76 Series	KX-T7636/33/30/25/65/68 and Option T7640, T7603 and T7601	
	KX-T77 Series	KX-T7735/30/50/20/10 and Option T7740	

Note: TDE100 and TDE200 systems have built-in capabilities to enhance the system with additional IP extensions, IP trunks, applications and options. These can be unlocked using optionally available activation keys. For further details - please check list of activation keys available for this communication platform.

Specifications

KX-TDE100/TDE200		
Control Bus	Original bus (16-bit, 8 MHz, 10 megabytes per second)	
Communication Bus	H.100 bus conformity (1024 time slots)	
Switching	Non-blocking	
Power Input	PSU-S	100 V AC to 130 V AC; 1.4 A 200 V AC to 240 V AC; 0.8 A 50 Hz/60 Hz
	PSU-M	100 V AC to 130 V AC; 2.5 A 200 V AC to 240 V AC; 1.4 A 50 Hz/60 Hz
	PSU-L	100 V AC to 130 V AC; 5.1 A 200 V AC to 240 V AC; 2.55 A 50 Hz/60 Hz
External Battery	+36 V DC (+12 V DC x 3, recommended maximum capacity is 28 Ah)	
Maximum Power Failure Tolerance	300 ms (without using backup batteries)	
Memory Backup Duration	7 years	
Dialling	Trunk	Dial Pulse (DP) 10 pps, 20 pps Tone (DTMF) Dialling
	Extension	Dial Pulse (DP) 10 pps, 20 pps Tone (DTMF) Dialling
Mode Conversion	DP-DTMF, DTMF-DP	
Ring Frequency	20 Hz/25 Hz (Selectable)	
Trunk Loop Limit	1600 Maximum	
Operating Environment	Temperature	0 C to 40 C
	Humidity	10 % to 90 % (non-condensing)
Conference Call Trunk	From 10 x 3-party conference call to 4 x 8-party conference call	
Music on Hold (MOH)	2 ports (Level Control: -11 dB to +11 dB in 1 dB steps) MOH1: External Music Source port MOH2: Selectable Internal/External Music Source port	
Paging	Internal	Level Control: -15 dB to +6 dB in 3 dB steps
	External	2 ports (Volume Control: -15 dB to +15 dB in 1 dB steps)
Serial Interface Port	RS-232C	1 (maximum 115.2 kbps)
RJ45 Port	MNT Port	1 (for PC connection)
	LAN Port	1 (for LAN connection)
Extension Connection Cable	SLT	1-pair wire (T, R)
	DPT	1-pair wire (D1, D2) or 2-pair wire (T, R, D1, D2)
	APT	2-pair wire (T, R, D1, D2)
	PT-interface CS (Basic)	1-pair wire (D1, D2)
Dimension	KX-TDE100	334 mm(W) x 390 mm(H) x 272 mm(D)
	KX-TDE200	430 mm(W) x 415 mm(H) x 276 mm(D)
Weight (when fully mounted)	KX-TDE100	Under 12 kg
	KX-TDE200	Under 16 kg

System Feature Capacity

	Item	KX-TDE100	KX-TDE200	
System	Absent Message-Extension		1 x 16 characters	
	Absent Message-System		8 x 16 characters	
	Call Park Zone		100	
	Conference		3-8 parties per conference (32 parties total)	
	COS		64	
	DID/DDI Table		32 digits, 1,000 entries	
	Extension Number		1-5 digits (1-4 digits for PSS, 2-4 digits for extensions which have a VM (DPT) mailbox)	
	Extension Personal Identification Number (PIN)		10 digits, 1 entry/extension	
	Host PBX Access Code		10 digits, 10 entries/trunk group	
	Multiple Subscriber Number (MSN)		10 entries per ISDN-BRI port	
	Number of the Characters of Name		20	
	Printing Message		8	
	Queuing Time Table		64	
	Ring Tone Pattern Plan		8	
	Simultaneous Programmers		<ul style="list-style-type: none"> one system programmer + 63 personal programmers one manager programmer + 63 personal programmers 64 personal programmers 	
	SMDR Call Storage		200 calls / 10,000 calls with MEC	
	Special Carrier Access Code		16 digits, 20 entries	
	Tenant		8	
	Time Service Holiday		24	
	Verification Code		4 digits, 1,000 entries	
	Verification Code Personal Identification Number (PIN)		10 digits, 1,000 entries	
	Dialling	Emergency Call		32 digits, 10 entries
		Hot Line		32 digits
		Key Pad Protocol Dial (ISDN Service Access)		32 digits
		Personal Speed Dialling		32 digits, 100 entries/extn.
Quick Dialling			8 digits, 4,080 entries	
Redial			32 digits	
System Speed Dialling			32 digits, 1,000 entries/tenant	
Broadcasting Group			8 (32 members/group)	
Call Pickup Group			64	
Idle Extension Hunting Group			64 (16 extensions/group)	
Groups	Incoming Call Distribution Group		128 (128 extensions/group)	
	Paging Group		32	
	PS Ring Group		32	
	Trunk Group		64	
	VM (DPT) Group		2 groups x 12 ports (24 channels)	
	VM (DTMF) Group		2 groups x 32 channels	
	TRS/Barring Level		7	
	TRS/Barring Denied Code		16 digits, 100 entries/level	
	TRS/Barring Exception Code		16 digits, 100 entries/level	
	ARS	Routing Plan Table		16 entries
Leading Number Table			16 digits, 1,000 entries	
Leading Number Exception Table			16 digits, 200 entries	
ARS Carrier			10	
Itemised Billing Code			10 digits	
Authorisation Code for Trunk Group			10 digits	
Call Log and Message Waiting		Outgoing Call Log - PT		100 records/extn. 1,520 records/system
		Outgoing Call Log - PS		100 records/extn. 640 records/system
		Incoming Call Log - PT		100 records/extn. 3,040 records/system
		Incoming Call Log - PS + Incoming Call Distribution Group		100 records/extn. or group Total 2,048 records/system
	Message Waiting - PS + Incoming Call Distribution Group		256	
Voice Message *1	Message Waiting - PT + SLT		512	
	Outgoing Message (OGM)		64	
	OGM Total Recording Time		8 minutes	
	Built-in Enhanced Simplified Voice Message (ESVM)*2		125 messages	
	Optional Enhanced Simplified Voice Message (ESVM)*2		250 messages	
Hospitality and Charge Management Features	SVM Total Recording Time		20, 60 or 120 minutes (depending on the recording quality)	
	Billing Items for Guest Rooms		4,000 records/PBX	
	Hotel Operator		4	
	Charge Rate		7 digits including a decimal	
	Charge Denomination		3 currency characters/symbols	
Networking	TIE Line Routing and Modification Table		32 entries	
	Leading Number		3 digits	
	PBX Code		7 digits	
	NDSS: Monitored PBXs		8	
	NDSS: Registered Extensions for Monitor PBX		250	
CTI	PC Console		8	
	PC Phone		64 128	
Password	System Password for Installer		4 - 10 characters	
	System Password for Administrator – for PC Programming		4 - 10 characters	
	System Password for User – for PC programming		4 - 10 characters	
	System Password for Administrator – for PT Programming		4 - 10 digits	
	System Password for User – for PT Programming		4 - 10 digits	
Pro-grammer Code	Manager Password		4 - 10 digits	
	Installer Level Programmer Code		4 - 16 characters	
	Administrator Level Programmer Code		4 - 16 characters	
	User Level Programmer Code		0 - 16 characters	

Feature List

Call Handling Features

Incoming Call Features

Incoming Trunk Call Features

- Direct In Line (DIL)
- Direct Inward Dialling (DID)/Direct Dialling In (DDI)
- Multiple Subscriber Number (MSN)
- Calling Line Identification (CLI) Distribution
- Intercept Routing
- Intercept Routing-No Destination (Internal Call)
- Internal Call Block - Incoming Call Indication
- Ring Tone Pattern Selection
- Call Waiting

Receiving Group Features

Idle Extension Hunting

Incoming Call Distribution (ICD) Group Features

- Group Call Distribution
- Outside Destinations in ICD Group
- Queuing Feature
- VIP Call
- Overflow Feature
- Log-in/Log-out
- Supervisory Feature - Call Distribution Port Group

Call Forwarding (FWD)/

Do Not Disturb (DND) Features

- Call Forwarding (FWD)
- Do Not Disturb (DND)
- FWD/DND Button, Group FWD Button

Answering Features

- Line Preference-Incoming
- Call Pickup
- Hands-Free Answerback

Making Call Features

Redialling

Automatic Extension Release

Intercom Call

Trunk Call Features

- Emergency Call
- Account Code Entry
- Dial Type Selection
- Reverse Circuit
- Trunk Busy Out
- Pause Insertion
- Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)
- Special Carrier Access Code

Seizing a Line Features

- Line Preference - Outgoing
- Trunk Access

Memory Dialling Features

- One-Touch Dialling
- KX-T7710 One touch Dialling
- Last Number Redial
- Speed Dialling - Personal/System
- Quick Dialling
- Hot Line

Paging Features

Broadcasting Features

Primary Directory Number (PDN)/ Secondary Directory Number (SDN) Features

Busy Line/Busy Party Features

Automatic Callback Busy (Camp-on)

Executive Busy Override

Call Monitor

Second Call Notification to Busy Extension

- Call Waiting Tone
- Off-Hook Call Announcement (OHCA)
- Whisper OHCA

Toll Restriction (TRS)/

Call Barring (Barring) Features

Toll Restriction (TRS)/Call Barring (Barring)

Budget Management

Extension Dial Lock

Dial Tone Transfer

Walking COS

Verification Code Entry

Automatic Route Selection (ARS) Features

Conversation Features

Hands-Free Operation

Off-Hook Monitor

Mute

Headset Operation

Data Line Security

Flash/Recall/Terminate

External Feature Access (EFA)

Trunk Call Limitation

Paralleled Telephone

Calling Party Control (CPC) Signal Detection

Transferring Features

Call Transfer

Holding Features

Call Hold

Call Park

Call Splitting

Music on Hold

Conference Features

- Conference
- Privacy Release

Optional Device Features

Doorphone Call

Door Open

Trunk Answer from Any Station (TAFAS)

Background Music (BGM)

Outgoing Message (OGM)

Direct Inward System Access (DISA)

External Sensor

External Relay Control

Caller ID Features

Caller ID

Incoming Call Log

Message Features

Message Waiting

Absent Message

Hospitality Features

Room Status Control

Call Billing for Guest Room

*1 Message card capacity. Not System capacity.

*2 Supports High Quality Music On Hold

Proprietary Telephone (PT) Features

Fixed Buttons

Flexible Buttons

LED Indication

Display Information

Integrated Services Digital Network (ISDN) Service Features

Calling/Connected Line Identification

Presentation (CLIP/COLP)

Advice of Charge (AOC)

Call Forwarding (CF) - by ISDN (P-MP)

Call Forwarding (CF) - by ISDN (P-P)

Call Hold (HOLD) - by ISDN

Call Transfer (CT) - by ISDN

Three-party Conference (3PTY) - by ISDN

Malicious Call Identification (MCID)

Completion of Calls to Busy Subscriber (CCBS)

ISDN extension

ISDN Service Access by Keypad Protocol

E1 Line Service Features

Voice Message Features

Built-in Simplified Voice Message (SVM)

Simplified Voice Message card (SVM)

Voice Mail Features

Voice Mail (VM) Group

Voice Mail DTMF Integration

Voice Mail DPT (Digital) Integration

Portable Station (PS) Features

Portable Station (PS) Connection

PS Ring Group

PS Directory

PS Feature Buttons

Wireless XDP Parallel Mode

Virtual PS

Administrative Information Features

Record Log Features

Station Message Detail Recording (SMDR)

Syslog Record Management

Printing Message

Call Charge Services

Extension Controlling Features

Extension Personal Identification Number (PIN)

Extension Feature Clear

Walking Extension Features

Walking Extension

Enhanced Walking Extension

Timed Reminder

Audible Tone Features

Dial Tone

Confirmation Tone

IP Telephone Features

IP Proprietary Telephone (IP-PT)

SIP (Session Initiation Protocol) Extension

Peer-to-Peer Connection

Self Labelling (KX-N1366 Only)

Computer Telephony Integration (CTI)

PC Phone/PC Console

Cellular Phone Features

Voice Message Clear

Networking Features

TIE Line Service

Voice over Internet Protocol (VoIP) Network

Virtual Private Network (VPN)

OSIG Standard Features

Calling/Connected Line Identification

Presentation (CLIP/COLP) and

Calling/Connected Name Identification

Presentation (CNIP/CNPP) - by OSIG635

Call Forwarding (CF) - by OSIG

Call Transfer (CT) - by OSIG

Completion of Calls to Busy Subscriber

(CCBS) - by OSIG

OSIG Enhanced Features

Network Direct Station Selection (NDSS)

Centralised Voice Mail

Network ICD Group

PS Roaming by Network ICD Group

System Configuration and Administration Features

System Configuration - Hardware

Extension Port Configuration

System Configuration - Software

Class of Service (COS)

Group

Tenant Service

Time Service

Operator Features

Manager Features

System Data Control

PC Programming

PT Programming

Password Security

Quick Setup

Automatic Setup

Flexible Numbering/Fixed Numbering

Floating Extension

Software Upgrading

Fault Recovery/Diagnostics

Power Failure Transfer

Power Failure Restart

Local Alarm Information

Simple Network Management Protocol

(SNMP) System Monitor

Dynamic Host Configuration Protocol

(DHCP) Assignment

Packet Internet Groper (PING) Confirmation