

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)	32	32
	Total Number of Extensions	256	256
	Extension (Physical Extension Card)	160	256
	Extension (Virtual Extension Card)	128	128
Maximum Terminal Equipment	IP-Proprietary Telephone (IP-PT) and IP Softphone SIP Extension	64	64
	SIP Extension	128	128
	Telephone	256	256
	Single Line Telephone (SLT)	96	128
	KX-T7600 series Digital Proprietary Telephone (DPT)	128	256
	KX-T7560/KX-T7565 DPT	96	128
	Other DPT	32	128
	Analogue Proprietary Telephone (APT)	24	64
	IP-PT	160	160
	IP-PT *1 (supported by IP-EXT16 card)	96	128
	IP-PT *2 (supported by IPCMPR card)	64	64
	SIP Extension	128	128
	DSS Console	8	8
	Basic Cell Station (CS)	32	32
	High-Density CS	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 KX-NT136 and KX-NT265

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



Option List

	Model	Description
Main Processing Card	KX-TDE0101	IP Convergence Main Processing Card (IPCMPR)
IPCMPR Option Cards	KX-TDE0110	16-Channel VoIP DSP Card (DSP16)
	KX-TDE0111	64-Channel VoIP DSP Card (DSP64)
	KX-TDA0196	Remote Card (RMT)
Activation Key Cards	KX-NC54104	4-Channel IP Trunk Activation Key (4 IP Trunk)
	KX-NC54208	8-Channel IP Softphone/IP Proprietary Telephone Activation Key (8 IP Softphone/IP PT)
	KX-NC54508	8-Channel IP Proprietary Telephone Activation Key (8 IP PT)
	KX-NC54716	16-Channel SIP Extension Activation Key (16 SIP Extension)
	KX-NC54910	Activation Key for Software Upgrade to Enhanced Version (Software Upgrade 01)
	KX-TDA0180	8-Port Analogue Trunk Card (LCOT8)
Physical Trunk Cards	KX-TDA0181	16-Port Analogue Trunk Card (LCOT16)
	KX-TDA0182	8-Port DID Card (DID8)
	KX-TDA0183	4-Port Analogue Trunk Card (LCOT4)
	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)
	KX-TDA0161	4-Port Doorphone Card (DPH4)
Option Cards	KX-TDA0162	2-Port Doorphone Card (German Type)(DPH2)
	KX-TDA0164	4-Port External Input/Output Card (EIO4)
	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-TDA0191	4-Channel Message Card (MSG4)
Power Supply Units (PSUs)	KX-TDA0103	L-Type Power Supply Unit (PSU-L)
	KX-TDA0104	M-Type Power Supply Unit (PSU-M)
	KX-TDA0108	S-Type Power Supply Unit (PSU-S)
Cell Stations (CSs)	KX-TDA0141	2-Channel Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT Potable Station
	KX-TDA0142	4-Channel Cell Station Unit Using a CSIF Card for DECT Potable Station
	KX-TDA0158	8-Channel High-Density Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT Potable Station
Proprietary Equipment	KX-A228	S/M-type Back-up Battery Cable
	KX-A229	L-type Back-up Battery Cable
	KX-A258	Blank Slot Cover
	KX-T30865	Doorphone

Compatible Panasonic Proprietary Telephones

The PBX supports the following telephones:

- IP Proprietary Telephones (e.g. KX-NT300 series)
- IP Softphones (e.g. KX-NC5810X)
- Digital Proprietary Telephones (e.g. KX-T7600 series)
- Analogue Proprietary Telephones (e.g. KX-T7700 series)
- Portable Stations (e.g. KX-TCA355, KX-TCA256, KX-TCA155)
- DSS consoles (e.g. KX-T7640)
- Single Line Telephones (e.g. KX-T7710)

Incompatible Panasonic Proprietary Telephones

The PBX does not support the following telephones:

- KX-T30800 series proprietary telephones and DSS consoles
- KX-T61600 series proprietary telephones and DSS consoles
- KX-T123200 series proprietary telephones and DSS consoles
- KX-TD7500 DECT portable station

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	
	PSU-M	100 V AC to 130 V AC; 2.5 A	
PSU-L		200 V AC to 240 V AC; 1.4 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	
	Extension	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)	
		1-pair wire (D1, D2) or 2-pair wire (T, R, D1, D2)	
	DPT	2-pair wire (T, R, D1, D2)	
		2-pair wire (D1, D2)	
	APT	1-pair wire (D1, D2)	
		4-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		Item	KX-TDE100	KX-TDE200
System	Absent Message-Extension	1 x 16 characters		ARS	Routing Plan Table	16 entries	
	Absent Message-System	8 x 16 characters			Leading Number Table	16 digits, 1,000 entries	
	Call Park Zone	100			Leading Number Exception Table	16 digits, 200 entries	
	Conference	3-8 parties per conference (32 parties total)			ARS Carrier	10	
	COS	64			Itemised Billing Code	10 digits	
	DID/DDI Table	32 digits, 1,000 entries		Authorisation Code	10 digits		
	Extension Number	1-5 digits (1-4 digits for PSs, 2-4 digits for extensions which have a VM [DPT] mailbox)		Call Log and Message Waiting	Outgoing Call Log - PT	100 records/extn. 1,520 records/system	
	Extension Personal Identification Number (PIN)	10 digits, 1 entry/extension			Outgoing Call Log - PS	100 records/extn. 640 records/system	
	Host PBX Access Code	10 digits, 10 entries/trunk group			Incoming Call Log - PT	100 records/extn. 3,040 records/system	
	Multiple Subscriber Number (MSN)	10 entries per ISDN-BRI port			Incoming Call Log - PS + Incoming Call Distribution Group	100 records/extn. or group Total 2,048 records/system	
	Number of the Characters of Name	20			Message Waiting - PS + Incoming Call Distribution Group	256	
	Printing Message	8		Message Waiting - PT + SLT	512		
	Queuing Time Table	64		Outgoing Message (OGM)	64		
	Ring Tone Pattern Plan	8		OGM Total Recording Time	8 minutes		
	Simultaneous Programmers	• one system programmer + 63 personal programmers • one manager programmer + 63 personal programmers • 64 personal programmers		Voice Message	Built-in Simplified Voice Message (SVM)	125 messages	
	SMDR Call Storage	200 calls			SVM Total Recording Time	40, 60, or 120 minutes (depending on the recording quality)	
	Special Carrier Access Code	16 digits, 20 entries		Hospitality and Charge Management Features	Billing Items for Guest Rooms	4,000 records/PBX	
	Tenant	8			Hotel Operator	4	
	Time Service Holiday	24			Charge Rate	7 digits including a decimal	
	Verification Code	4 digits, 1,000 entries		Networking	Charge Denomination	3 currency characters/symbols	
Verification Code Personal Identification Number (PIN)	10 digits, 1,000 entries		TIE Line Routing and Modification Table		32 entries		
Emergency Call	32 digits, 10 entries		Leading Number		3 digits		
Hot Line	32 digits		PBX Code		7 digits		
Key Pad Protocol Dial (ISDN Service Access)	32 digits		NDSS: Monitored PBXs		8		
Personal Speed Dialling	32 digits, 100 entries/extn.		NDSS: Registered Extensions for Monitor PBX	250			
Quick Dialling	8 digits, 4,080 entries		CTI	PC Console	8		
Redial	32 digits			PC Phone	64	128	
System Speed Dialling	32 digits, 1,000 entries/tenant		Password	System Password for Installer	4 - 10 characters		
Broadcasting Group	8 (32 members/group)			System Password for Administrator — for PC Programming	4 - 10 characters		
Call Pickup Group	64			System Password for User — for PC Programming	4 - 10 characters		
Idle Extension Hunting Group	64 (16 extensions/group)			System Password for Administrator — for PT Programming	4 - 10 digits		
Incoming Call Distribution Group	128 (32 extensions/group)			System Password for User — for PT Programming	4 - 10 digits		
Paging Group	32			Manager Password	4 - 10 digits		
PS Ring Group	32			Installer Level Programmer Code	4 - 16 characters		
Trunk Group	64			Administrator Level Programmer Code	4 - 16 characters		
VM (DPT) Group	2 groups x 12 ports (24 channels)		Pro-grammer Code	User Level Programmer Code	0 - 16 characters		
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						

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) Ringing Service
- Calling Line Identification (CLI) Distribution
- Intercept Routing
- Intercept Routing-No Destination
- Internal Call Features
- Internal Call Block
- Incoming Call Indication Features
- Ring Tone Pattern Selection
- Call Waiting

Receiving Group Features

Idle Extension Hunting

Incoming Call Distribution Group Features

- Group Call Distribution
- Outside Destinations in Incoming Call Distribution 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

Predialling

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

Primary Directory Number (PDN)/

Secondary Directory Number (SDN) Features

Busy Line/Busy Party Features

Automatic Callback Busy (Camp-on)

Executive Busy Override

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

Parallelled 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

Paging Features

Broadcasting Features

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

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)

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

Hospitality Features

Room Status Control

Call Billing for Guest Room

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

Networking Features

TIE Line Service

Voice over Internet Protocol (VoIP) Network

Virtual Private Network (VPN)

QSIG Standard Features

- Calling/Connected Line Identification

Presentation (CLIP/COLP) and

Calling/Connected Name Identification

Presentation (CNIP/CONP) - by QSIG365

- Call Forwarding (CF) - by QSIG
- Call Transfer (CT) - by QSIG
- Completion of Calls to Busy Subscriber (CCBS) - by QSIG

QSIG Enhanced Features

- Network Direct Station Selection (NDSS)
- Centralised Voice Mail
- Network ICD Group
- PS Roaming by Network ICD Group

IP Telephone Features

IP Proprietary Telephone (IP-PT)

SIP (Session Initiation Protocol) Extension

Peer-to-Peer Connection

Self Labelling (KX-NT366 Only)

Computer Telephony Integration (CTI)

Features

Computer Telephony Integration (CTI)

PC Phone/PC Console

Cellular Phone Features

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