Panasonic

ideas for life



KX-TDE100 **KX-TDE200**



	Туре	KX-TDE100	KX-TDE200	
Total Number of Trunks		128	128	
Ti	runk (Physical Trunk Card)	120	128	
Ti	runk (Virtual Trunk Card)	32	32	
Total	Number of Extensions	256	256	
Extension (Physical Extension Card)		160	256	
E	xtension (Virtual Extension Card)	128	128	
	IP-PT and IP Softphone	64	64	
	SIP Extension	128	128	

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.

MaximumTerminal Equipment

Terminal Equipment Type	KX-TDE100	KX-TDE200	
Telephone	256 256 96 128 0 series DPT 128 256 0/KX-T7565 DPT 96 128 T 32 128 24 64 160 160 T *1 (supported by IP-EXT16 card) 96 128		
SLT	96	128	
KX-T7600 series DPT	128	256	
KX-T7560/KX-T7565 DPT	96	128	
Other DPT	32	128	
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 CS	32	32	
High-Density CS	16	16	
PS	128	128	
Voice Processing System (VPS)	2	2	
Doorphone	16	16	
Door Opener	16	16	
External Sensor	16	16	
External Relay	16	16	

Option List

		Model	Description	
Main Pro- cessing 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)	
Option	Cards	KX-TDA0196	Remote Card (RMT)	
		KX-NCS4104	4-Channel IP Trunk Activation Key (4 IP Trunk)	
		KX-NCS4208	8-Channel IP Softphone/IP Proprietary Telephone Activation Key (8 IP Softphone/IP PT)	
Activation Key Cards		KX-NCS4508	8-Channel IP Proprietary Telephone Activation Key (8 IP PT)	
	irds	KX-NCS4716	16-Channel SIP Extension Activation Key (16 SIP Extension)	
		KX-NCS4910	Activation Key for Software Upgrade to Enhanced Version (Software Upgrade 01)	
		KX-TDA0180	8-Port Analogue Trunk Card (LCOT8)	
		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-TDA0187	T-1 Trunk Card (T1)	
		KX-TDA0188	E-1 Trunk Card (E1)	
Physic		KX-TDA0189	8-Port Caller ID/Pay Tone Card (CID/PAY8)	
Trunk	Cards	KX-TDA0193	8-Port Caller ID Card (CID8)	
		KX-TDA0284	4-Port BRI Card (BRI4)	
		KX-TDA0288	8-Port BRI Card (BRI8)	
		KX-TDA0290CE/CJ	PRI Card (PRI 30)	
		KX-TDA0290 PRI Card (PRI 23)		
		KX-TDA0484	4-Channel VoIP Gateway Card (IP-GW4E)	
		KX-TDA0490	16-Channel VoIP Gateway Card (IP-GW16)	
		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)	
DI	-1	KX-TDA0171	8-Port Digital Extension Card (DLC8)	
Physic Extens		KX-TDA0172	16-Port Digital Extension Card (DLC16)	
Cards	,,,,,,,	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)	
		KX-TDA0162	2-Port Doorphone Card (German Type)(DPH2)	
Other		KX-TDA0164	4-Port External Input/Output Card (EIO4)	
Physic	al	KX-TDA0166	16-Channel Echo Canceller Card (ECHO16)	
Cards		KX-TDA0168	Extension Caller ID Card (EXT-CID)	
		KX-TDA0190	Optional 3-Slot Base Card (OPB3)	
		KX-TDA0191	4-Channel Message Card (MSG4)	
Power		KX-TDA0103	L-Type Power Supply Unit (PSU-L)	
Supply		KX-TDA0104	M-Type Power Supply Unit (PSU-M)	
(PŚÚs)		KX-TDA0108	S-Type Power Supply Unit (PSU-S)	
		KX-TDA0141CE	2-Channel Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT Potable Station	
	Basic CSs	KX-TDA0141	2-Channel Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for 2.4 GHz Portable Station	
0.11		KX-TDA0142CE	4-Channel Cell Station Unit Using a CSIF Card for DECT Potable Station	
Cell Sta- tions (CSs)		KX-TDA0142	3-Channel Cell Station Unit Using a CSIF Card for 2.4 GHz Portable Station	
		KX-TDA0151	2-Channel Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for 2.4 GHz Portable Station	
		KX-TDA0152	3-Channel Cell Station Unit Using a CSIF Card for 2.4 GHz Portable Station	
	High- Density CSs		8-Channel High-Density Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT Portable Station	
	035	KX-A228	S/M-type Back-up Battery Cable	
Dra'	otor:	KX-A229	L-type Back-up Battery Cable	
Proprietary Equipment		KX-A258	Blank Slot Cover	
		KX-730865	Doorphone	
		100-100000	Boorphone	

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-T170500 DECT portable station

- | Compatible Panasonic Proprietary Telephones
 | The PBX supports the following telephones:
 | IP proprietary telephones (e.g., KX-NT300 series)
 | IP softphones (e.g., KX-NC58100)
 | 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-TD7690)
 | DSS consoles (e.g., KX-T7640)
 | Single line telephones (e.g., KX-T7710)

Specifications

	KX-TDI	=100/TDE200	KX-TDE100/TDE200					
Control Bus		Original bus (16-bit, 8 MHz, 10 megabytes per second)						
Communication	n Bus	H.100 bus conformity [1024 time slots]						
Switching		Non-blocking						
	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						
Power Input	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 Batte	ery	+36 V DC (+12 V DC x 3, recommended maximum capacity is 28 Ah)						
Maximum Pow Tolerance	er Failure	300 ms (without using ba	ckup batteries)					
Memory Back	up 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 Convers	ion	DP-DTMF, DTMF-DP						
Ring Frequence	у	20 Hz/25 Hz (Sele	ectable)					
Trunk Loop Li		1600 Ω Maximum						
Operating	Temperature	0 °C to 40 °C						
Environment	Humidity	10 % to 90 % (non-condensing)						
Conference Ca	ıll Trunk	From 10 x 3-party conference call to 4 x 8-party conference call						
Music on Hold	(мон)	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						
	Internal	Level Control: -15 dB to + 6 dB in 3 dB steps						
Paging	External	2 ports (Volume Control: -15 dB to + 15 dB in 1 dB steps)						
Serial Interface Port	RS-232C	1 (maximum 115.						
interface FULL	MNT Port	1 (for PC connection)						
RJ45 Port	LAN Port	1 (for LAN connection)						
		SLT	1-pair wire (T, R)					
		DPT	1-pair wire (D1, D2) or 2-pair wire (T, R, D1, D2)					
Extension Con	nection Cable	APT	2-pair wire (T, R, D1, D2)					
		PT-interface CS (Basic)	1-pair wire (D1, D2)					
		PT-interface CS (High-Density)	4-pair wire (D1, D2)					
		DSS Console and Add-on Key Module	1-pair wire (D1, D2)					
Dimension	KX-TDE100	Add-on Key Module 334 mm(W) x 390 r	(D1, D2) nm(H) x 272 mm(D)					
Dimension	KX-TDE200	Add-on Key Module 334 mm(W) x 390 r 430 mm(W) x 415 r	(D1, D2)					
Dimension Weight (when fully mounted)		Add-on Key Module 334 mm(W) x 390 r	(D1, D2) nm(H) x 272 mm(D)					

System Feature Capacity



	Item	KX-TDE100	KX-TDE200		ltem	KX-TDE100	KX-TDE200	
	Absent Message-Extension	1 x 16 cha	aracters		Routing Plan Table	16 entries		
	Absent Message-System	8 x 16 cha	aracters		Leading Number Table	16 digits, 1,000 entries		
	Call Park Zone	100		ARS	Leading Number Exception Table	16 digits,	200 entries	
	Conference	3-8 parties per conference (32 parties total)			ARS Carrier	,	0	
	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)			Outgoing Call Log - PT	100 records/extn. 1,520 records/syster		
	Extension (vulliber				Outgoing Call Log - PS	100 records/extn. 640 records/system		
	Extension Personal Identification 10 digits, 1 entry/extension		Call Log	Incoming Call Log - PT	100 records/extn. 3,040 records/system			
	Number (PIN)	To digits, i en	and		Incoming Call Log - PS + Incoming 100 rec		cords/extn. or group	
	Host PBX Access Code	10 digits, 10 entri		Message	Call Distribution Group	Total 2,048 records/system		
	Multiple Subscriber Number (MSN)	10 entries per l	SDN-BRI port	Waiting	Message Waiting - PS + Incoming Call Distribution Group	256		
	Number of the Characters of Name	20)		Call Distribution Group			
stem	Printing Message	8			Message Waiting - PT + SLT	512		
	Queuing Time Table	64			Outgoing Message (OGM)	6	4	
	Ring Tone Pattern Plan	8			OGM Total Recording Time	8 mi	nutes	
	Simultaneous Programmers	one system programmer + one manager programmer - one manager programmer -	+ A3 nersonal programmers	Voice Message	Built-in Simplified Voice Message (SVM)	125 messages		
	SMDR Call Storage	64 personal programmers 200 calls		SVM Total Recording Time	40, 60, or 120 minutes (depending on the recording quality)			
	Special Carrier Access Code	16 digits, 20 entries 8 24		Hospitality and Charge Management	Billing Items for Guest Rooms	4,000 records/PBX		
	Tenant				Hotel Operator	4		
	Time Service Holiday				Charge Rate	7 digits including a decimal		
	Verification Code	4 digits, 1,0	00 entries	Features	Charge Denomination	3 currency characters/symbols		
	Verification Code Personal	Verification Code Personal 10 digits, 1,000 entries			TIE Line Routing and Modification Table	32 entries		
	Identification Number (PIN)	To digits, 1,0	oud entines		Leading Number	3 digits		
	Emergency Call	32 digits, 1	0 entries	Matura eleia e	PBX Code	7 digits		
	Hot Line	32 di	gits	Networking	NDSS:Monitored PBXs	8		
	Key Pad Protocol Dial (ISDN Service Access)	32 di			NDSS:Registered Extensions	250		
alling	Personal Speed Dialling	32 digits, 100			for Monitor PBX			
	Quick Dialling	8 digits, 4,0	80 entries	СТІ	PC Console	8		
	Redial	32 di	J .	CII	PC Phone	64	128	
	System Speed Dialling	32 digits, 1,000			System Password for Installer	4 - 10 cł	naracters	
	Broadcasting Group	8 (32 memb			System Password for Administrator —	/ ₄ = 10 cl	10 characters	
	Call Pickup Group	64			for PC Programming	4 - 10 Characters		
	Idle Extension Hunting Group	64 (16 extens			System Password for User — for PC Programming	4 - 10 characters		
	Incoming Call Distribution Group	128 (32 extens						
oups	Paging Group	32	2	Password	System Password for Administrator — 1	4 - 10 digits		
	PS Ring Group	32			for PT Programming	4-	o uigits	
	Trunk Group	64			System Password for User — 4 - 10 digits		l digite	
	VM (DPT) Group	2 groups x 12 por			for PT Programming	4 - 10 digits		
	VM (DTMF) Group	2 groups x 32 channels			Manager Password	4 - 10 digits		
- /	TRS/Barring Level	7		Pro-	Installer Level Programmer Code	4 - 16 characters		
S/	TRS/Barring Denied Code	16 digits, 100	entries/level	grammer Code	Administrator Level Programmer Code	4 - 16 characters		
Barring	TRS/Barring Exception Code	14 digits 100	16 digits, 100 entries/level		User Level Programmer Code	0 - 16 characters		

Feature List.

1. Call Handling Features

Incoming Call Features

- Incoming Call Features
 Incoming Trunk Call Features
 Direct In Line (DIL)
 Direct Inward Dialling (IDID/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 Features
 Internal Call Block
 Incoming Call Indication Features
 Ring Tone Pattern Selection
 Call Waiting
 Receiving Group Features

Receiving Group Features
Idle Extension Hunting
Incoming Call Distribution Group Features
• Group Call Distribution
• Outside Destinations in Incoming Call

- Distribution Group

- 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
 Payes Insertion

- 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
Call Monitor
Second Call Notification to Busy Extension

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

Toll Restriction (TRS)/

Total 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

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

Paging Features

Broadcasting Features Ontional Device Features

Optional Device Features
Doorphone Call
Door Open
Trunk Answer From Any Station (TAFAS)
Background Music (BGM)
Outgoing Message (DGM)
Direct Inward System Access (DISA)
External Sensor

External Relay Control **Caller ID Features** Incoming Call Log

Message Features Message Waiting Absent Message

Proprietary Telephone (PT) Features

Fixed Butto Flexible Buttons

Integrated Services Digital Network (ISDN)

- 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

 Call Transfer (CT) by ISDN

 Malicious Call Identification (MCID)

 Completion of Calls to Blusy Subscriber Completion of Calls to Busy Subscriber (CCBS)
 ISDN Extension
 ISDN Service Access by Keypad Protocol

E1 Line Service Features

T1 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

Voice Mail DPT (Lightal) integrat
 Portable Station (PS) Features
 Portable Station (PS) Connection
 PS Ring Group
 PS Directory
 PS Feature Buttons
 Wireless XDP Parallel Mode
 Wireless XDP Parallel Mode

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)

(PIN)
Extension Feature Clear
Walking Extension Features
• Walking Extension
• Enhanced Walking Extension Timed Reminder

Audible Tone Features Dial Tone Confirmation Tone

Networking Features

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 (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP) by QSIG365
 Call Forwarding (CF) by QSIG
 Call Transfer (CT) by QSIG
 Cangletion of Calls to Busy Subscriber (CCBS) by QSIG

 QSIG Enhanced Features
 Network Direct Station Selection (NDSS)

- 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

2. 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 Password Security
Quick Setup
Automatic Setup
Flexible Numbering
Floating Extension
Software Upgrading

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