Panasonic

ideas for life







Туре	KX-TDE100	KX-TDE200	
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	
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	
SLT	96	128 256 128 128 64	
KX-T7600 series DPT	128		
KX-T7560/KX-T7565 DPT	96		
Other DPT	32		
APT	24		
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	

^{*1} KX-NT136 and KX-NT265 *2 KX-NT300 series and KX-NT265 (software version 2.00 or later only)

Option List

Main Pr	Model		Description			
cessing card		KX-TDE0101	IP Convergence Main Processing Card (IPCMPR)			
IPCMPF		KX-TDE0110	16-Channel VoIP DSP Card (DSP16)			
Option Cards		KX-TDE0111	64-Channel VoIP DSP Card (DSP64)			
option cards		KX-TDA0196	Remote Card (RMT)			
Activation		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)			
Key Car		KX-NCS4508	8-Channel IP Proprietary Telephone Activation Key (8 IP PT)			
		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)			
Physica	al	KX-TDA0188	E-1 Trunk Card (E1)			
Trunk C	Cards	KX-TDA0189	8-Port Caller ID/Pay Tone Card (CID/PAY8) 8-Port Caller ID Card (CID8)			
		KX-TDA0193	4-Port BRI Card (BRI4)			
		KX-TDA0284	8-Port BRI Card (BRI8)			
		KX-TDA0288	PRI Card (PRI 30)			
		KX-TDA0290CE/CJ KX-TDA0290	PRI Card (PRI 23)			
		KX-TDA0290 KX-TDA0484	4-Channel VoIP Gateway Card (IP-GW4E)			
		KX-TDA0484 KX-TDA0490	16-Channel VoIP Gateway Card (IP-GW16)			
		KX-TDA0440	4 Cell Station Interface Card (CSIF4)			
		KX-TDA0143	8 Cell Station Interface Card (CSIF8)			
		KX-TDA0144 KX-TDA0170	8-Port Digital Hybrid Extension Card (DHLC8)			
		KX-TDA0170	8-Port Digital Extension Card (DLC8)			
Physica Extensi		KX-TDA0171	16-Port Digital Extension Card (DLC16)			
Cards	1011	KX-TDA0172	8-Port Single Line Telephone Extension Card (SLC8)			
		KX-TDA0173	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)			
Physica	al	KX-TDA0166	16-Channel Echo Canceller Card (ECH016)			
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	Units	KX-TDA0104	M-Type Power Supply Unit (PSU-M)			
(PŚÚs)		KX-TDA0108	S-Type Power Supply Unit (PSU-S)			
	Basic CSs	KX-TDA0141CE	2-Channel Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT Potable Station			
		KX-TDA0141	2-Channel Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for 2.4 GHz Portable Station			
Cell Sta- tions (CSs)		KX-TDA0142CE	4-Channel Cell Station Unit Using a CSIF Card for DECT Potable Station			
		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	KX-TDA0158CE	8-Channel High-Density Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT Portable 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			

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-TDE100/TDE200				
Control Bus		Original bus (16-bit, 8 MHz,		
Communication Bus		10 megabytes per second) 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		
Diatting	Extension	Dial Pulse (DP) 1 Tone (DTMF) Dial	0 pps, 20 pps lling	
Mode Conversion		DP-DTMF, DTMF-DP		
Ring Frequency		20 Hz/25 Hz (Sele	ectable)	
Trunk Loop Lii	mit	1600 Ω Maximun	า	
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 (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		
	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		
	MNT Port	1 (for PC connection)		
RJ45 Port	LAN Port	1 (for LAN connection)		
	<u>'</u>	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		mm(H) x 272 mm(D)	
Danien Sivii	KX-TDE200	430 mm(W) x 415 mm(H) x 276 mm		
Martin La Contract	KX-TDE100	Under 12 kg		
Weight (when fully mounted)	KX-TDE200	Under 16 kg		

System Feature Capacity

	Item	KX-TDE100	KX-TDE200		Item	KX-TDE100	KX-TDE200
	Absent Message-Extension	1 x 16 cha	aracters		Routing Plan Table	16 ei	ntries
ļ	Absent Message-System	8 x 16 characters			Leading Number Table	16 digits, 1,000 entries	
	Call Park Zone	100		1	Leading Number Exception Table	16 digits,	200 entries
	Conference	3-8 parties per conference (32 parties total)		ARS	ARS Carrier	10	
	COS	64		1	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			Outgoing Call Log - PT	100 records/extn. 1,520 records/system		
	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	Outgoing Call Log - PS	100 records/extn. 640 records/system	
	Extension Personal Identification Number (PIN)	10 digits, 1 entry/extension			Incoming Call Log - PT	100 records/extn. 3,040 records/system 100 records/extn. or group	
	Host PBX Access Code				Incoming Call Log - PS + Incoming 100 records/extn. or grou Call Distribution Group Total 2,048 records/system		cords/system
	Multiple Subscriber Number (MSN)	10 entries per I		Waiting	-		
	Number of the Characters of Name	20		-	Message Waiting - PS + Incoming Call Distribution Group	2	56
System	Printing Message	8			Message Waiting - PT + SLT	512	
-,	Queuing Time Table	64			Outgoing Message (OGM)	6	
	Ring Tone Pattern Plan	8		1	OGM Total Recording Time	8 mir	
	Simultaneous Programmers	one system programmer + one manager programmer	63 personal programmers + 63 personal programmers	Voice Message	Built-in Simplified Voice Message (SVM)	125 messages	
	SMDR Call Storage	• 64 personal 200 c	9	-	SVM Total Recording Time	40, 60, or 120 minutes (depending on the recording quality)	
	Special Carrier Access Code	16 digits, 20 entries H 8 al 24 M			Billing Items for Guest Rooms	4,000 records/PBX	
	Tenant			Hospitality and Charge	Hotel Operator	4,000 records/r BX	
	Time Service Holiday			Management	Charge Rate	7 digits including a decimal	
	Verification Code	4 digits, 1,0	00 entries	Features	Charge Denomination		acters/symbols
	Verification Code Personal Identification Number (PIN) 10 digits, 1,000 entries		200 1 :		TIE Line Routing and Modification Table	32 entries	
				Leading Number	3 digits		
	Emergency Call	32 digits, 1	0 entries	1	PBX Code	7 d	gits
	Hot Line	32 di	gits	Networking	NDSS:Monitored PBXs		3
	Key Pad Protocol Dial (ISDN Service Access)	32 di			NDSS:Registered Extensions for Monitor PBX	250	
Dialling	Personal Speed Dialling	32 digits, 100	entries/extn.		for Monitor PBX		
	Quick Dialling	8 digits, 4,0		СТІ	PC Console		3
	Redial	32 di		CII	PC Phone	64	128
	System Speed Dialling	32 digits, 1,000			System Password for Installer	4 - 10 ch	aracters
	Broadcasting Group	8 (32 memb			System Password for Administrator —	4 - 10 characters	
	Call Pickup Group	64			for PC Programming		
	Idle Extension Hunting Group	64 (16 extens			System Password for User —	4 - 10 characters	
Groups	Incoming Call Distribution Group	128 (32 extensions/group) 32 32 64		Password	for PC Programming	4 - 10 cilai actei 5	
	Paging Group				System Password for Administrator — for PT Programming	4 - 10 digits	
	PS Ring Group						
	Trunk Group				System Password for User —	4 - 10 digits	
	VM (DPT) Group	2 groups x 12 ports (24 channels)			for PT Programming		
	VM (DTMF) Group	2 groups x 32 channels			Manager Password	4 - 10 digits	
TRS/	TRS/Barring Level	7		Pro-	Installer Level Programmer Code	4 - 16 characters	
Barring	TRS/Barring Denied Code	16 digits, 100		grammer	Administrator Level Programmer Code	4 - 16 characters	
	TRS/Barring Exception Code	16 digits, 100 entries/level		Code	User Level Programmer Code	0 - 16 characters	

Feature List.

1. Call Handling Features

- 1. Call Handling 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
 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-jn/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 Parrty 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 Bluss 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 (LLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP) by QSIG365
 Call Forwarding (CF) by QSIG
 Call Transfer (CT) by QSIG
 Call Transfer (CT) by QSIG
 Completion 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