Panasonic
ideas for life

TDE 100
TDE 200
Hybrid IP-PBX

System Capacity

			KX-TDE100	KX-TDE200
Extensions		**Total System Extensions**	**256**	**256**
	MPR	IP Proprietary Telephone (IP-PT)	64	64
		IP Single Line Telephone (IP-SLT)	128	128
	Free Slot	IP Proprietary Telephone (IP-PT)	96	128
		Single Line (a/b) Telephone (SLT)	96	128
		Digital Proprietary Telephone (DPT) **(Type 1) Note 1**	128	256
		Digital Proprietary Telephone (DPT) **(Type 2) Note 2**	32	128
		Analogue Proprietary Telephone (APT)	24	64
		Direct Station Select (DSS) Console	8	8
		Voice Processing System (VPS)	2	2
Trunks		**Total System Trunk Ports**	**128**	**128**
	MPR	VoIP Channel Card - DSP16[#1]	32	32
		VoIP Channel Card - DSP64[#1]	32	32
	Free Slot	Analogue Trunk	96	128
		ISDN Trunk — BRI	96 (48 BRI)	128 (64 BRI)
		ISDN Trunk — PRI	120 (4 PRI)	120 (4 PRI)
		IP-Gateway	64	64
Wireless		Portable Station (PS)	128	128
		Cell Station (CS)	32	32

(Note 1): Type 1: T7600 series, T7560, T7565 Digital Proprietary Telephones. Total shown does not include DXDP.
(Note 2): Type 2: T7200, T7400, T7500 series Digital Proprietary Telephones
#1: One card per system. Connects to IPCMPR card

Option List for TDE100/200

	Model		Description	Maximum Quantity KX-TDE100	KX-TDE200
MPR Card	KX-TDE0101		IP MPR Card	1	1
MPR Option Cards		KX-TDE0110	16-Channel VoIP Card (DSP16)	1	1
		KX-TDE0111	64-Channel VoIP Card (DSP64)	1	1
		KX-TDA0196	Remote Card (RMT)	1	1
Power Supply Unit	KX-TDA0103		L-Type Power Supply Unit for KX-TDA200 Systems (PSU-L)	X	1
	KX-TDA0104		M-Type Power Supply Unit for KX-TDA200/TDA100 Systems (PSU-M)	1	1
	KX-TDA0108		S-Type Power Supply Unit for KX-TDA100 Systems (PSU-S)	1	X
Trunk Cards	KX-TDA0180		8-Port Analogue Trunk Card (LCOT8)	6	8
	KX-TDA0181		16-Port Analogue Trunk Card (LCOT16)	6	8
	Daughter cards for KX-TDA0180 and KX-TDA0181 only	KX-TDA0189	8-Port Caller ID/Pay Tone Card (CID/PAY8)	12	16
		KX-TDA0193	8-Port Caller ID Card (CID8)	12	16
	KX-TDA0182		8-Port DID card (DID8)	6	8
	KX-TDA0183		4-Port Analogue Trunk Card (LCOT4)	6	8
	KX-TDA0184		8-Port E&M Trunk Card (E&M8)	6	8
	KX-TDA0188		E-1 Trunk Card (E1)	4	4
	KX-TDA0284		4-Port Basic Rate Interface (BRI) Card (BRI4)	6	8
	KX-TDA0288		8-Port Basic Rate Interface (BRI) Card (BRI8)	6	8
	KX-TDA0290		Primary Rate Interface (PRI) Card (PRI 30)	4	4
	KX-TDA0484		4-Channel VoIP Gateway Card (IP-GW4)	4	4
	KX-TDA0490		16-Channel VoIP Gateway Card (IP-GW16)	4	4
Extension Cards	KX-TDA0170		8-Port Digital Hybrid Extension Card (DHLC8)	6	8
	KX-TDA0171		8-Port Digital Extension Card (DLC8)	6	8
	KX-TDA0172		16-Port Digital Extension Card (DLC16)	6	8
	KX-TDA0173		8-Port Single Line Telephone Card (SLC8)	6	8
	For KX-TDA0173	KX-TDA0168	8-Port Extension Caller ID Card (EXT-CID)	6	8
	KX-TDA0174		16-Port Single Line Telephone Card (SLC16)	6	8
	KX-TDA0175		16-Port Single Line Telephone Card with Message Lamp (MSLC16)	6	8
	KX-TDA0470		16-Port IP PT Extension Card (IP-EXT16)	6	8
Option Cards	KX-TDA0190		Optional 3-Slot Base Card (OPB3)	4	4
	Daughter cards for KX-TDA0190 card only.	KX-TDA0161	4-Port Doorphone Card (for KX-T30865) (DHP4)	4	4
		KX-TDA0162	2-Port Doorphone Card (for German Type) (DPH2)	8	8
		KX-TDA0164	4-Port External sensor Card (EIO4)	4	4
		KX-TDA0166	16-Channel Echo Canceller Card (ECHO16)	2	2
		KX-TDA0191	4-Channel Message Card (MSG4)[*1]	4	4
DECT Options	KX-TDA0141		2-Channel Cell Station Unit for DHLC/DLC Card	32	32
	KX-TDA0158		8-Channel High Density Cell Station Unit for DHLC/DLC Card	16	32
	KX-TDA0142		4-Channel Cell Station Unit for CSIF Card	32	32
	KX-TDA0143		4 Cell Station Interface Card (CSIF4) for TDA0142	4	4
	KX-TDA0144		8 Cell Station Interface Card (CSIF8) for TDA0142	4	4
	KX-A272		2-Channel DECT Cell Station Repeater	-	-
Additional Accessories	KX-A242		19" Rack Mounting bracket for KX-TDE200	1	1
	KX-A243		19" Rack Mounting bracket for KX-TDE100	1	1
	KX-A244		19" Rack Mounting bracket for KX-TDA30	X	X
	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	48	64
	KX-A289		KX-TCA256 Transparent Front Carry Case	-	-
	KX-A287		KX-TCA256 Belt Clip Carry Case	-	-
	KX-A288		KX-TCA155 Transparent Front Carry Case	-	-
	KX-A290		KX-TCA355 Belt Clip Carry Case	-	-
CTI Applications	KX-TDA0350		PC Phone - 1st Party CTI Software / PC Phone Software Add-in for Microsoft® Outlook®	128 / 128	128 / 256
	KX-TDA0300		PC Console - Operator Software with system directory capabilities	8	8
	KX-NCS1100		Phone Assistant Pro Trial / Express[*2]	15	15
	KX-NCS1101		Phone Assistant Pro - 1 licence		
	KX-NCS1105		Phone Assistant Pro - 5 licences	128[*3]	128[*3]
	KX-NCS1110		Phone Assistant Pro - 10 licences		
	KX-NCS1199		Phone Assistant Pro - 128 licences		
	KX-NCS1200		Phone Assistant Status Pro Trial / Express[*2]	3	3
	KX-NCS1201		Phone Assistant Status Pro (1 licence)	8	8
	KX-NCS1301		Phone Assistant Manager	16	16
	KX-NCS8100		IP Softphone	96	128

[*1] Total Record time: 8 minutes per system. Up to 64 messages, maximum 1 minute per message.
[*2] Software bundled free with PBX
[*3] Maximum 128 licences per system

Line-up
KX-TDE100 and KX-TDE200

Specifications

KX-TDE100/200
Power Voltage: AC100V ~ 130V / 200V ~ 240V (No switch) 50 / 60 Hz
External Battery: +36V (+12V x 3), Built-in interface
Memory Back-up Duration: 7 years
Dialling: Extension - DP (10pps, 20pps), DTMF CO - DP (10pps, 20pps), DTMF
Mode Conversion: DP-DTMF, DTMF-DP
Connectors: CO Line - Amphenol Connector Station - Amphenol Connector Paging Output - 2 conductor jack External Voice Output - 2 conductor jack
Ring Frequency: 20 /25 Hz (Selectable)
Trunk Loop Limit: 1600 ohms Max.
Operating Environment: Temperature - 0 - 40 C (32 - 104 F) Humidity - 10 - 90%
MOH (Music on Hold): 2 ports MOH # 1: External Music Source MOH # 2: Selectable Internal Music / External Music Source Level control: -11dB ~ +11dB per 1dB steps
Internal Paging: Level control: -15dB ~ +6dB per 3dB steps
External Paging: 2 ports. Level control: -15dB ~ +15dB per 1dB steps
Serial Interface Port: RS-232C: 1 port (115.2kbps)
Ethernet Port: Ethernet: RJ45 2 ports
Structure: Free Slot style Can be accommodated into 19" Rack
Dimensions: KX-TDA100: 334mm(W) x 390mm(H) x 272mm(D) KX-TDA200: 430mm(W) x 415mm(H) x 276mm(D)
Weight (when fully mounted): KX-TDA100: Under 12 Kg (Fully configured) KX-TDA200: Under 16 Kg (Fully configured)

System Feature Capacity

System		KX-TDE100/200
System	Tenant	8
	Class of Service	64
	Trunk Group	64
	User Group	32
	Paging Group	32
	Call Pickup Group	64
	Incoming Call Distribution (ICD) Group	128 (32 extensions per group)
	Portable station (PS) Ring Group	32
	Voice Mail (DPT) Group	2 units x 24 ch
	Voice Mail (DTMF) Group	2 groups x 32 ch
	Queuing Time Table	64
	Idle Extension Hunting Group	64 (16 extensions / group)
	Absent Message (System / Extension)	8 message x 16 characters per system 1 message x 16 characters per extension
	Message Waiting	512
	Number of the characters of Name	20
	Extension Number Digits	1 - 4 digits
	Call Park Zone	100
	Conference	3x10 - 8x4
	Special Carrier Code	16 digits, 20 entries
	Verified Code	4 digits x 1000 entries
	Verified Code Personal Identification Number (PIN)	10 digits, 1000 entries
	Host PBX Access Code	10 digits (10 entries / trunk group)
	DDI/DID Table	32 digits (1000 entries)
	Station Message Detailed Recording (SMDR) Call Storage	1000 calls w/o EMEC card 4000 calls w EMEC card

		KX-TDE100/200
Dialling	Emergency Call	32 digits, 10 entries
	Quick Dialling	8 digits, 4080 entries
	System Speed Dialling	32 digits, 1000 entries per Tenant Max: 8 Tenants
	Personal Speed Dialling	32 digits, 100 entries per extension
	One-Touch Dialling	32 digits
	Hot Line	32 digits
	Key Pad Protocol Dial (ISDN Service Access)	32 digits
	Redial	32 digits
Toll Restriction / Barring	Toll Restriction/Barring Level	7
	Toll Restriction /Barring Denied Code	16 digits, 100 entries per level
	Toll Restriction /Barring Exception Code	16 digits, 100 entries per level
Automatic Route Selection (ARS)	Routing Plan Table	16 entries
	Leading Number Table	16 digits, 1000 entries
	Leading Number Exception Table	16 digits, 200 entries
	ARS Carrier	10
	Itemised Billing Code	10 digits
	Authorisation Code	10 digits
Call Log	Outgoing Call Log	100 logs per extension
	Incoming Call Log	100 logs per extension
Voice Mail	Max Number of VPS Systems	2
	Max Number of VPS Channels	2 x 24 ch
Networking	TIE Routing Table	32 entries
	Leading Number	3 digits
	PBX Code	7 digits
Password	System Password for Administrator	4-10 digits
	System Password for User	4-10 digits
	Manager Password	4-10 digits
	Extension Personal Identification Number (PIN)	10 digits / extension

Feature List

Incoming 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 Block
- Ring Tone Pattern Selection
- Call Waiting

Receiving Group Features
- Idle Extension Hunting
- Group Call Distribution
- Queuing Feature
- VIP Call
- Overflow Feature
- Log-in/Log-out
- Supervisory Feature

Call Forwarding (FWD)/ Do Not Disturb (DND) Features
- Call Forwarding (FWD)
- Do Not Disturb (DND)

Answering Features
- Line Preference - Incoming
- Call Pickup
- Hands-free Answerback

Making Call Features
- Pre-dialling
- Automatic Extension Release
- Intercom Call
- 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
- Line Preference - Outgoing
- Trunk Access

Memory Dialling Features
- One-touch Dialling
- Last Number Redial
- Speed Dialling - Personal/System
- Quick Dialling
- Hot Line

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)*[1]
- Whisper OHCA

Toll Restriction (TRS)/ Call Barring (Barring) Features
- Toll Restriction (TRS)/Call Barring (Barring)
- Budget Management
- Extension Lock
- Dial Tone Transfer
- Walking COS
- Verified Code Entry

Automatic Route Selection (ARS) Features
- Automatic Route Selection

Conversation Features
- Hands-free Operation
- Off-hook Monitor
- Mute
- Headset Operation
- Data Line Security *[1]
- 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 *[2]
- Privacy Release

Paging Features
- Paging

Broadcasting Features
- Broadcasting

Optional Device Features
- Door phone 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

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
- E1 Line Service

T1 Line Service Features
- T1 Line Service

Voice Mail (VM) 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

Administrative Information Features
- Station Message Detail Recording (SMDR)
- Printing Message
- Call Charge Services

Hospitality Features
- Room Status Control
- Call Billing for Guest Room

Extension Personal Identification Number (PIN)
- Extension Feature Clear
- Walking Extension
- Timed Reminder
- Remote Extension Control by User
- Enhanced Walking Extension

Audible Tone Features
- Dial Tone
- Confirmation Tone

Networking Features
- TIE Line Service
- Virtual Private Network (VPN)
- QSIG Network
- Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP) - by QSIG
- Call Forwarding (CF) - by QSIG
- Call Transfer (CT) - by QSIG
- Completion of Calls to Busy Subscriber (CCBS) - by QSIG
- Network Direct Station Selection (NDSS)
- Voice over Internet Protocol (VoIP) Network

IP Proprietary Telephone (IP-PT) Features
- New IP Proprietary Telephone (IP-PT)
- Peer to Peer communication (NT300 series)

SIP Extension Support
- Outgoing
- Incoming
- HOLD
- Transfer

LAN Configuration Function
- LAN Configuration Setting Function
- Ping

*[1]: This feature is unavailable with the IP-PT.
*[2]: A SIP extension cannot originate a conference call, but can be a member of a conference call.

IP-PT: IP Proprietary Telephone
DPT: Digital Proprietary Telephone
APT: Analogue Proprietary Telephone
SLT: Single Line Telephone

Design and specification subject to change without notice.