

## System Capacity

			KX-TDA600								KX-TDA600			
			Basic System	2 Shelf System	3 Shelf System	4 Shelf System (Max)					Basic System	2 Shelf System	3 Shelf System	4 Shelf System (Max)
<b>Extensions</b>	Max Extension Port (DPT and SLT)	Without DXDP*	240	480	720	960	<b>Wireless</b>	Portable Station (PS)	Without Memory Expansion Card	256	256	256	256	
		With DXDP*	304	608	880	1120			512	512	512	512		
	Single Line (a/b) Telephone (SLT)		240	480	720	960		Cell Station (CS)		32	64	96	128	
	Digital Proprietary Telephone (DPT)								High Density Cell Station (HDCS)	16	32	48	64	
	Digital Proprietary Telephone (DPT) <b>Type 1 (Note 1, Note 4)</b>	With/Without DXDP*	256	512	640	640		<b>Doorphone Port</b>		16	32	48	64	
	Digital Proprietary Telephone (DPT) <b>Type 2 (Note 2)</b>		128	256	384	512		<b>Door Opener</b>		16	32	48	64	
	IP Proprietary Telephone (IPT) <b>Note 3</b>		160	320	480	640		<b>External Sensor</b>		16	32	48	64	
	Analogue Proprietary Telephone (APT)		80	160	240	320		<b>External Relay</b>		16	32	48	64	
	Direct Station Select (DSS) Console		64	64	64	64		<b>USB Module</b>		160	320	480	640	
	Voice Processing System (VPS)		8	8	8	8		<b>PC Console</b>		8	8	8	8	
<b>Trunks</b>	Trunk Port		160	320	480	640	<b>PC Phone</b>		128	128	128	128		
		BRI	160	320	480	640								
	ISDN Trunk	PRI	150	300	450	600								
	Analogue Trunk		160	320	480	640								
	IP Trunks		160	320	480	640								

\*DXDP: Digital eXtra Device Port

**Note 1: (Type 1):** T7600 series, T7560, T7565 Digital Proprietary Telephones

**Note 2: (Type 2):** Current Digital Proprietary Telephones (T7200, T7400, T7500 series)

**Note 3:** NT300 series IP Proprietary Telephones

**Note 4:** Max number of DPT extension channels = 256 ch per system. DXDP does not increase system capacity over this amount; it only reduces the number of cards required.

## Option List for TDA600

	Model	Description	
<b>Cabinet</b>	KX-TDA600 (Proprietary)	Basic Shelf (Main Unit)	
	KX-TDA620 (Proprietary)	Expansion Shelf Bus Slave Connection Circuit added initially (BUS S)	
<b>Power Supply</b>	KX-TDA0103	Large Power Supply Unit (L-PSU)	
	KX-TDA0104	Medium Power Supply Unit (M-PSU)	
	KX-TDA6105	Memory Expansion Card (EMEC)	
<b>EMPR Options</b>	KX-TDA0196	Remote Modem Card (RMT)	
	KX-TDA6110	Shelf Connection Card for Basic Shelf (BUS M)	
<b>Inter Connection</b>	KX-TDA6111	Additional Card for connecting Expansion Shelf 2 and 3 (BUS ME)	
	KX-TDA6117	Mounted onto Bus M Card	
<b>Extension Cards</b>	KX-TDA0170	8-Port Digital Hybrid Extension Card (DHL8)	
	KX-TDA0171	8-Port Digital Extension Card (DLC8)	
	KX-TDA0172	16-Port Digital Extension Card (DLC16)	
	KX-TDA0173	8-Port Single Line Telephone Card (SLC8)	
	Daughter card for SLC8 card only	KX-TDA0168	8-Port Analogue Extension Caller ID card (EXT-CID8)
	KX-TDA6174	16-Port Single Line Telephone Card (ESLC16)	
	KX-TDA6175	16-Port Single Line Telephone Card with Message Lamp (EMSLC16)	
	KX-TDA0177	16-Port Single Line Telephone Card with Caller ID (CSLC16)	
	KX-TDA6178	24-Port Single Line Telephone Card (ESCLC24)	
	KX-TDA0470	16-Port IP PT Extension Card (IP-EXT16)	
<b>Trunk Cards</b>	KX-TDA6181	16-Port Analogue Trunk Card (ELCOT16)	
	Daughter cards for LCOT cards only	KX-TDA0189 KX-TDA0193	8-Port Caller ID/Pay Tone Card (CID/PAY8)
	KX-TDA0182	8-Port Caller ID Card (CID8)	
	KX-TDA0184	8-port Direct Dialling In (DID) Card (DID8)	
	KX-TDA0188	8-Port E&M Trunk Card (E&M8)	
	KX-TDA0284	E-1 Trunk Card (E1)	
	KX-TDA0288	4-Port Basic Rate Interface (BRI) Card (BRI4)	
	KX-TDA0288	8-Port Basic Rate Interface (BRI) Card (BRI8)	
	KX-TDA0290	Primary Rate Interface (PRI) Card (PRI 30)	
	KX-TDA0480	4-Channel VoIP Gateway Card (IP-GW4)	
<b>DECT Options</b>	KX-TDA0484	4-Channel VoIP Gateway Card (IP-GW4E)	
	KX-TDA0490	16-Channel VoIP Gateway Card (IP-GW16)	
	KX-TDA0141	2-Channel Cell Station Unit for DHL8/DLC Card	
	KX-TDA0142	4-Channel Cell Station Unit for CSIF Card	
	KX-TDA0143	4 Cell Station Interface Card (CSIF4) for TDA0142	
	KX-TDA0144	8 Cell Station Interface Card (CSIF8) for TDA0142	
	KX-TDA0158	8-Channel High Density Cell Station Unit for DHL8/DLC Card	
	KX-A272	2-Channel DECT Cell Station Repeater	
	KX-TDA6166	16-Channel Echo Canceller Card (EECHO16)	
	KX-TDA0410	CTI Link Card (TAPI/CSTA, 10Base-T)	
<b>Option Cards</b>	KX-TDA0190	Optional 3-Slot Base Card (OPB3)	
		KX-TDA0161	4-Port Doorphone Card (for KX-T30865) (DHP4)
		KX-TDA0162	2-Port Doorphone Card (for German Type) (DPH2)
		KX-TDA0164	4-Port External sensor Card (EIO4)
	Daughter cards for OPB3 card only	KX-TDA0191	4-Channel Message Card (MSG4)*1
		KX-TDA0192	2-Channel Enhanced Simple Voice Message Card (ESVM2)
		KX-TDA0194	4-Channel Enhanced Simple Voice Message Card (ESVM4)
	<b>Additional Accessories</b>	KX-TDA6920	SD Card containing Enhanced Feature Upgrades
		KX-TDA6201	Mounting Kit - Contains 4 x Wall Mounting Plates, 4 x Feet, and Screws
		KX-A242	19" Rack Mounting bracket for KX-TDA600/620
KX-A229		L-type Back-up Battery Cable	
KX-A258		Blank Slot Cover	
KX-T7765		Doorphone	
KX-A289		KX-TCA256 Transparent Front Carry Case	
KX-A288		KX-TCA155 Transparent Front Carry Case	
KX-A290		KX-TCA355 Belt Clip Carry Case	
<b>CTI Applications</b>		KX-TDA0350	PC Phone - 1st Party CTI Software / PC Phone Software Add-in for Microsoft® Outlook®
	KX-TDA0300	PC Console - Operator Software with system directory capabilities	
	KX-NC51100*2	Phone Assistant Pro Trial / Express	
	KX-NC51101	Phone Assistant Pro - 1 licence*3	
	KX-NC51105	Phone Assistant Pro - 5 licences*3	
	KX-NC51110	Phone Assistant Pro - 10 licences*3	
	KX-NC51199	Phone Assistant Pro - 128 licences*3	
	KX-NC51200*2	Phone Assistant Status Pro Trial / Express	
	KX-NC51201	Phone Assistant Status Pro (1 licence)	
	KX-NC51301*2	Phone Assistant Manager	
KX-NC58100/8101	IP Softphone		
KX-NC59101	IP Softphone Module - 1 licence for KX-NC51101,1105,1110,1199*3		

\*1 Total Record time: 8 minutes per system. Up to 64 messages, maximum 1 minute per message.

\*2 Software bundled free with PBX

\*3 Limited by Maximum Extension capacity

Note 1: To reach maximum capacity of IP Softphones, a combination of 29 x KX-NC59101 and balance of KX-NC58100/01 must be used.

## Specifications

KX-TDA600
<b>Power Voltage:</b> AC100V ~ 240V
<b>External Battery:</b> +36V (+12V x 3), Built-in interface
<b>Memory Back-up Duration:</b> 7 years
<b>Dialling:</b> Extension - z (10pps, 20pps), DTMF CO - DP (10pps, 20pps), DTMF
<b>Mode Conversion:</b> DP-DTMF, DTMF-DP
<b>Connectors:</b> CO Line - Amphenol Connector Station - Amphenol Connector Paging Output - 2 conductor jack External Voice Output - 2 conductor jack
<b>Ring Frequency:</b> 20/25 Hz (Selectable)
<b>Central Office Loop Limit:</b> 1600 ohms Max.
<b>Operating Environment:</b> Temperature - 0 - 40 C (32 - 104 F) Humidity - 10 - 90%
<b>MOH (Music on Hold):</b> 2 ports MOH # 1: External Music Source MOH # 2: Internal Music / External Music Source (Level control: -6dB ~ +6dB per 3dB)
<b>Internal Paging:</b> Level control: -6dB ~ +6dB per 3dB
<b>External Paging:</b> 2 ports (Level control: -15dB ~ +15dB per 3dB)
<b>Serial Interface Port:</b> USB: 1 port RS-232C: 1 port (115.2kbps)
<b>Structure:</b> Free Slot style Can be accommodated into 19" Rack
<b>Dimensions:</b> Basic Shelf: 430mm(W) x 415mm(H) x 270mm(D) Expansion Shelf: 430mm(W) x 415mm(H) x 270mm(D)
<b>Weight (when fully mounted):</b> Basic Shelf: Under 16 Kg Expansion Shelf: Under 16 Kg



**Line-up**  
KX-TDA600 and the optional Expansion Shelf  
KX-TDA620 (Max 3 + TDA600)

# System Feature Capacity

		KX-TDA600
<b>System</b>	Tenant	32
	Class of Service	64
	Trunk Group	96
	User Group	96
	Paging Group	96
	Call Pickup Group	96
	Incoming Call Distribution (ICD) Group	128 groups, 128 extensions per group
	Portable station (PS) Ring Group	32
	Voice Mail (DPT) Group	8 groups x 24 ch
	Voice Mail (DTMF) Group	8 groups x 32 ch
	Queuing Time Table	128
	Idle Extension Hunting Group	128 groups (16 extensions per group)
	Absent Message (System / Extension)	8 message x 16 characters per system 1 message x 16 characters per extension
	Message Waiting	1672 (1032:PT+SLT) + (640:ICDG+PS)
	Number of the characters of Name	20
	Extension Number Digits	1 - 5 digits
	Call Park Zone	100
	Conference	3x10 - 8x4 per shelf
	Special Carrier Code	16 digits, 100 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
<b>Toll Restriction / Barring</b>	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

		KX-TDA600
<b>Networking</b>	TIE Routing Table	32 entries
	Leading Number	3 digits
<b>Automatic Route Selection (ARS)</b>	PBX Code	7 digits
	Routing Plan Table	48 entries
<b>ARS</b>	Leading Number Table	16 digits, 1000 entries
	Leading Number Exception Table	16 digits, 200 entries
<b>ARS</b>	ARS Carrier	48
	Itemised Billing Code	10 digits
<b>Dialling</b>	Authorisation Code	10 digits
	Emergency Call	32 digits, 10 entries
<b>Dialling</b>	Quick Dialling	4 digits, 80 entries w/o EMEC card 4 digits, 80 entries + 8 digits, 1000 entries w EMEC card
	System Speed Dialling	32 digits, 1000 entries per system w/o EMEC card 32 digits, 1000 entries per Tenant w EMEC card Max: 32 Tenants
<b>Dialling</b>	Personal Speed Dialling	32 digits, 10 entries per extension w/o EMEC 32 digits, 100 entries per extension w EMEC
	One-Touch Dialling	32 digits
<b>Password</b>	Hot Line	32 digits
	Key Pad Protocol Dial (ISDN Service Access)	32 digits
<b>Password</b>	Redial	32 digits
	System Password for Administrator	4-10 digits
<b>Password</b>	System Password for User	4-10 digits
	Manager Password	4-10 digits
<b>Password</b>	Extension Personal Identification Number (PIN)	0-10 digits / extension
	Max Number of VPS Systems	8
<b>Voice Mail</b>	Max Number of VPS Channels	8 x 24ch
	Total Voice Messages	250 messages (64 OGM)
<b>ESVM</b>	Total Recording Time	20, 60, or 120 minutes (depending on the recording quality)

## Feature List

### System Features

- Automatic Call Distribution (ARS)
- Automatic ISDN Setting (BRI)
- Automatic Route Selection (ARS) / Least Cost Routing (LCR)
- Background Music (BGM)
- Budget Management
- Busy on Busy
- Call Park with Indication
- Call Pickup Group
- Call Distribution by Caller ID
- Class of Service (COS)
- CTI (CSTA, TAPI)
- Data Line Security
- Delayed Ringing
- Direct In Lines (DIL)
- Direct Dial In (DDI)
- Direct Inward System Access (DISA)
- Door-Phone / Door Opener
- Echo Cancellation
- Extension Lock
- External Sensor/Relay for Alarm Notification
- Emergency Call
- Existing APT / DPT Compatibility
- External BGM
- Flexible Numbering Plan
- Floating Extension
- Greeting Message
- Host PBX Access Code
- Hunting Group
- Hurry-Up Transfer
- Incoming Call Distribution (ICD) group - Hunting Group
- Incoming Call Group (ICD) Call Log
- Intercept Routing - Busy / DND
- Intercept Routing - Busy (Default destination)
- Intercept Routing - DISA Message
- Intercept Routing - No Answer \*3
- Intercept Routing - Time Service (Day/Night/Lunch/Break)
- Intercept to Extension
- Intercept to Trunk
- Line Monitor (CO)
- Main Processing Card (MPR) / CS Software Download
- Manager Functions
- Multiple Language Support
- Online Diagnostics
- Operator Functions
- PC Console / PC Phone
- PC Programming
- Paging Group
- Primary Directory Numbers (PDN)
- Secondary Directory Numbers (SDN)
- Remote Extension Status Control through DISA
- Remote Extension Lock
- Ring Group
- Special Carrier Access
- Station Message Detail Recording (SMDR)
- SMDR 12 and 24 Hour Time Format
- SMDR Caller ID Printing
- System Memory Expansion

- Tenant Service
- Timed Reminder
- Time Service (Day/Night/Lunch/Break)
- Toll Restriction
- Trunk Group
- Uniform Call Distribution (UCD)
- User Group
- VIP-Call
- Visual Caller ID

### <Voice Mail (VM) Features>

- Automatic Configuration - Quick Setup
- Call Forwarding to VM
- Caller's Identification Notification to VM
- DISA and Auto Attendant (ESVM)
- Email Integration\*2
- Intercept Routing to VM
- LCD for VM operation (KX-T7636/33 only)
- Live Call Screening (LCS)
- Remote PBX Data Control by VM
- VM clear via CTI
- VM Data Control by PBX
- VM (Digital / DTMF) Integration
- VM Group
- VM Mail Transfer with Caller ID
- VM Message Number display on DPT LCD

### Extension Features

- 4-Party Conference with Broadcasting up to 32-Party
- Absent Message
- Account Code Entry (Forced)
- Automatic Answer from transfer
- Automatic Call Waiting
- Automatic Redial
- Boss - Secretary
- Broadcasting
- Caller ID to SLT
- Call Forwarding (All Calls, Busy, Busy/No Answer, No Answer, Follow Me, From Incoming Group)
- Call Hold
- Call Pick-up (Directed, Group, DSS, Deny)
- Call Transfer (Screened, Unscreened, One-Touch Transfer, Transfer Recall)
- Conference (3-Party Conference, Multi Party conference, Unattended Conference)
- Dial Type Selection
- Digital Duplex Speaker Phone (SP-phone)
- Digital eXtra Device Port (DXDP)
- Direct One-Touch Answering
- Do Not Disturb (DND)
- DSS Console
- Executive Busy Override
- Extension Directory
- Extension-to-Trunk Call duration Time
- External Feature Access
- Flexible Buttons
- Hands-free Operation
- Handset / Headset Selection
- Large Telephone Display Features with Back-light
- LED control for CTI

- Log-In / Log-Out
- Message Waiting
- Multi-Lingual Display
- Multiple Hop Call Forwarding (4 steps)
- Music on Hold by DDI/DIL Tenant
- Off-Hook Call Announcement (OHCA)
- Off-Hook Monitor
- One-Touch Dialling
- Paging (Deny, Paging Transfer)
- Paralleled Telephone (APT/DPT & SLT, DPT/SLT & PS, DPT/SLT & Mobile Telephone)
- Quick Dial
- Redial, Last Number
- Remote Station Control
- Special Carrier Access
- Speed Dialling - Personal & System
- Time and Date Display
- Tone Pulse Conversion
- Trunk Answer from Any Station (TAFAS)
- Walking Class Of Service (COS) multiple CLIP
- Whisper OHCA (Off-Hook Call Announcement)
- Wrap-Up
- eXtra Device Port (XDP)

### DECT Features

- Automatic Handover
- DECT CS on Digital Extension Port
- Headset Compatibility
- Incoming & Outgoing Call Log
- LCD Control via CTI\*1
- Wireless XDP Parallel Mode (SXDP)
- Vibrator Ring (KX-TCA256/355 Only)

### ISDN Service Features

- Advice of Charge (AOC)
- Alert Connect mode
- Call Hold (HOLD)
- Calling Line Identification Restriction (CLIR)
- Calling Line Identification Presentation (CLIP)
- Completion of Calls to Busy Subscriber (CCBS)
- Connected Line Identification Presentation (COLP)
- Connected Line Identification Restriction (COLR)
- Direct Dialling Inward (DDI)
- ISDN 3 Party Conference (3PTY)
- ISDN Call Forwarding (CFU / CFNR / CFB)
- ISDN Call Transfer (CT)
- ISDN Extension
- Malicious Call Identification (MCID)
- Multiple Subscriber Numbers (MSN)

### Built-in Hotel Features

- Call Billing for Guest Room
- Check-in / Check-out
- Remote Wake-up Call
- Room Status Control
- SMDR for External Hotel Application

### Mobile Telephone Integration Features

- Call Transfer\*1
- Incoming Call Distribution (ICD) group\*1
- System Feature Access\*1

### Networking Features

- Alternate Routing
- ARS with VoIP
- Centralised Voice Mail\*1
- Common Extension Numbering\*1
- DECT PS roaming using Network ICD\*1
- DISA Call to the Network
- Network Busy Lamp Field (BLF)\*1
- Network Closed Numbering
- Network Incoming Call Distribution (ICD) group\*1
- Private Network to Public Network
- Public Network to Private Network
- QSIG Connection
- QSIG Access to CO line
- Tandem Connection
- TIE Line
- Transfer to Network PBX
- Virtual Private Network (VPN)
- VoIP Network

### IP Telephone Features

- KX-NT300 series support

- \*1 TDA6920 Optional software required
- \*2 When integrated with a KX-TVM50/200 Voice Processing system.
- \*3 Day/Lunch/Break/Night/Busy

DPT: Digital Proprietary Telephone  
APT: Analogue Proprietary Telephone  
SLT: Single Line Telephone  
IPT: IP Proprietary Telephone  
PS: Portable Station