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TDA600
Hybrid IP-PBX
Version 2.03

System Capacity

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

*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): 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.

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

Option List for TDA600

	Model		Description
Cabinet	KX-TDA600 (Proprietary)		Basic Shelf (Main Unit)
	KX-TDA620 (Proprietary)		Expansion Shelf Bus Slave Connection Circuit added initially (BUS S)
Power Supply	KX-TDA0103		Large Power Supply Unit (L-PSU)
	KX-TDA0104		Medium Power Supply Unit (M-PSU)
EMPR Options	KX-TDA6105		Memory Expansion Card (EMEC)
	KX-TDA0196		Remote Modem Card (RMT)
Inter Connection	KX-TDA6110		Shelf Connection Card for Basic Shelf (BUS M)
	KX-TDA6111		Additional Card for connecting Expansion Shelf 2 and 3 (BUS ME) Mounted onto Bus M Card
Extension Cards	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 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-TDA0470		16-Port IP PT Extension Card (IP-EXT16)
Trunk Cards	KX-TDA6181		16-Port Analogue Trunk Card (ELCOT16)
	Daughter cards for LCOT cards only	KX-TDA0189	8-Port Caller ID/Pay Tone Card (CID/PAY8)
		KX-TDA0193	8-Port Caller ID Card (CID8)
	KX-TDA0182		8-port Direct Dialling In (DID) Card (DID8)
	KX-TDA0184		8-Port E&M Trunk Card (E&M8)
	KX-TDA0188		E-1 Trunk Card (E1)
	KX-TDA0284		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)
	KX-TDA0484		4-Channel VoIP Gateway Card (IP-GW4E)
	KX-TDA0490		16-Channel VoIP Gateway Card (IP-GW16)
DECT Options	KX-TDA0141		2-Channel Cell Station Unit for DHLC/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-A272		2-Channel DECT Cell Station Repeater
Option Cards	KX-TDA0190		Optional 3-Slot Base Card (OPB3)
	KX-TDA0410		CTI Link Card (TAPI/CSTA, 10Base-T)
	KX-TDA6166		16-Channel Echo Canceller Card (EECHO16)
	Daughter cards for OPB3 card only	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)
		KX-TDA0191	4-Channel Message Card (MSG4)
Other	KX-TDA6920		SD Card containing Enhanced Feature Upgrades
	KX-TDA6201		Mounting Kit - Contains 4 x Wall Mounting Plates, 4 x Feet, and Screws

Specifications

KX-TDA600
Power Voltage: AC100V ~ 240V
External Battery: +36V (+12V x 3), Built-in interface
Memory Back-up Duration: 7 years
Dialling: Extension - z (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)
Central Office 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: Internal Music / External Music Source (Level control: -6dB ~ +6dB per 3dB)
Internal Paging: Level control: -6dB ~ +6dB per 3dB
External Paging: 2 ports (Level control: -15dB ~ +15dB per 3dB)
Serial Interface Port: USB: 1port RS-232C: 1port (115.2kbps)
Structure: Free Slot style Can be accommodated into 19" Rack
Dimensions: Basic Shelf: 430mm(W) x 415mm(H) x 270mm(D) Expansion Shelf: 430mm(W) x 415mm(H) x 270mm(D)
Weight (when fully mounted): Basic Shelf: Under 16 Kg Expansion Shelf: Under 16 Kg

System Feature Capacity

		KX-TDA600
System	Tenant	8
	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
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

		KX-TDA600
Networking	TIE Routing Table	32 entries
	Leading Number	3 digits
	PBX Code	7 digits
Automatic Route Selection (ARS)	Routing Plan Table	48 entries
	Leading Number Table	16 digits, 1000 entries
	Leading Number Exception Table	16 digits, 200 entries
	ARS Carrier	48
	Itemised Billing Code	10 digits
	Authorisation Code	10 digits
Dialling	Emergency Call	32 digits, 10 entries
	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: 8 Tenants
	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
	Hot Line	32 digits
	Key Pad Protocol Dial (ISDN Service Access)	32 digits
	Redial	32 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)	0-10 digits / extension
Voice Mail	Max Number of VPS Systems	8
	Max Number of VPS Channels	8 x 24ch

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 - No Answer
- 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 Alarm Notification
- 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
- 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 Data Control by PBX
- VM (Digital / DTMF) Integration
- VM Group
- VM Mail Transfer
- 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 Redial
- Boss - Secretary (PDN/SDN)
- 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-lit
- LED control for CTI
- Log-In / Log-Out
- Message Waiting
- Multi-Lingual Display

- Multiple Hop Call Forwarding (4 steps)
- Music on Hold
- Off-Hook Call Announcement (OHCA)
- Off-Hook Monitor
- One-Touch Dialling
- Paging (Deny, Paging Transfer)
- Paralleled Telephone (APT/DPT & SLT, DPT/SLT & PS)
- 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 Extensions (including IP Softphone and IPT)
- 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 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)

Networking Features
- Alternated 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 (Built-in IP-GW)

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]

[1] TDA6920 Optional software required
[2] When integrated with a KX-TVM50/200 Voice Processing system.

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