Panasonic
ideas for life

TDA100
TDA200
Hybrid IP-PBX
MPR V5.0

System Capacity

		KX-TDA100		KX-TDA200	
		without Memory Expansion card (KX-TDA0105)	with Memory Expansion card (KX-TDA0105)		with Memory Expansion card (KX-TDA0105)
Extensions	Max Extension Port (DPT and SLT)	64	160	128	256
	Single Line (a/b) Telephone (SLT)	64	96	128	128
	Digital Proprietary Telephone (DPT) Note 1 (Type 1)	64	128	128	256
	Digital Proprietary Telephone (DPT) Note 2 (Type 2)	64	64	128	128
	IP Proprietary Telephone (IPT) Note 3	64	96	128	128
	Analogue Proprietary Telephone (APT)	24	24	64	64
	Direct Station Select (DSS) Console	8	8	8	8
	Voice Processing System (VPS)	2		2	
Trunks	Trunk Port	64		64	
	ISDN Trunk BRI	64		128	
	ISDN Trunk PRI	60		120	
	Analogue Trunk	64		128	
	IP-Gateway	32		64	
Wireless	Portable Station (PS)	128		128	
	Cell Station (CS)	32		32	
Doorphone Port		16		16	
PC Console		8		8	
PC Phone		+		+	

Note 1: (Type 1): T7600 series, T7560, T7565 Digital Proprietary Telephones
Note 2: (Type 2): T7200, T7400, T7500 series Digital Proprietary Telephones
Note 3: NT300 series IP Proprietary Telephones

Option List for TDA100/200

	Model	Description	Maximum Quantity KX-TDA100	KX-TDA200
MPR Option Cards	Daughter cards for MPR card only KX-TDA0105	Memory Expansion Card (MEC)	1	1
	KX-TDA0196	Remote Card (RMT)	1	1
Power Supply Unit	KX-TDA0103	L-Type Power Supply Unit for KX-TDA200 Systems	x	1
	KX-TDA0104	M-Type Power Supply Unit for KX-TDA200/TDA100 Systems	1	1
	KX-TDA0108	S-Type Power Supply Unit for KX-TDA100 Systems	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-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-TDA0177	16-Port Single Line Telephone Card with Built-in Caller-ID (CSLC-16)	6	8
	KX-TDA0470	16-Port IP PT Extension Card (IP-EXT16)	6	8
Option Cards	KX-TDA0410	CTI Link Card (TAPI/CSTA, 10Base-T)	1	1
	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)	4	4
	KX-TDA0191	4-Channel Message Card (MSG4)*1	4	4
	KX-TDA0192	2-Channel Enhanced Simple Voice Message Card (ESVM2)	4	4
	KX-TDA0194	4-Channel Enhanced Simple Voice Message Card (ESVM4)	4	4
DECT Options	KX-TDA0141CE	2-Channel Cell Station Unit for DHLC/DLC Card	16	32
	KX-TDA0142	4-Channel Cell Station Unit for CSIF Card	16	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-TDA0158	8-Channel High Density Cell Station Unit for DHLC/DLC Card	16	16
	KX-A272	2-Channel DECT Cell Station Repeater	-	-
Additional Accessories	KX-TDA0820	SD Card containing Standard Feature Upgrades	1	1
	KX-TDA0920	SD Card containing Enhanced Feature Upgrades	1	1
	KX-A242	19" Rack Mounting bracket for KX-TDA200	-	-
	KX-A243	19" Rack Mounting bracket for KX-TDA100	-	-
	KX-A228	S/M-type Back-up Battery Cable	-	-
	KX-A229	L-type Back-up Battery Cable	-	-
	KX-A258	Blank Slot Cover	-	-
	KX-T7765	Doorphone	16	16
	KX-A289	KX-TCA256 Transparent Front 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®	64 / 64	128 / 128
	KX-TDA0300	PC Console - Operator Software with system directory capabilities	8	8
	KX-NCS1100*2	Phone Assistant Pro Trial / Express	14	14
	KX-NCS1101	Phone Assistant Pro - 1 licence		
	KX-NCS1105	Phone Assistant Pro - 5 licences	96*3	128
	KX-NCS1110	Phone Assistant Pro - 10 licences		
	KX-NCS1199	Phone Assistant Pro - 128 licences		
	KX-NCS1200*2	Phone Assistant Status Pro / Express	3	3
	KX-NCS1201	Phone Assistant Status Pro (1 licence)	8	8
	KX-NCS1301*2	Phone Assistant Manager	16	16
	KX-NCS8100/8101	IP Softphone	96	128
	KX-NCS9101	IP Softphone Module (KX-NCS1101,1105,1110,1199)	96*3	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 Limited by Maximum Extension capacity
Note 1: To reach maximum capacity of IP Softphones, a combination of 29 x KX-NCS9101 and balance of KX-NCS8100/01 must be used.

Line-up
KX-TDA100 and KX-TDA200

Specifications

KX-TDA100/200
Power Voltage: AC100V ~ 240V 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)
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 Level control: -11dB ~ +11dB per 1dB MOH # 1: External Music Source MOH # 2: Internal Music / External Music Source
Internal Paging: Level control: -15dB ~ +6dB per 3dB
External Paging: 2 ports (Level control: -15dB ~ +15dB per 1dB)
Serial Interface Port: USB: 1 port RS-232C: 1 port (115.2kbps)
Structure: Free Slot style Can be accommodated into 19" Rack
Dimensions: KX-TDA100: 334mm(W) x 390mm(H) x 270mm(D) KX-TDA200: 430mm(W) x 415mm(H) x 270mm(D)
Weight (when fully mounted): KX-TDA100: Under 12 Kg KX-TDA200: Under 16 Kg

System Feature Capacity

System		KX-TDA100/200
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
	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-TDA100/200
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 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
ESVM	Total Voice Messages	250 messages
	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 (SVM)
- 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 TDA0920 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

Design and specification subject to change without notice.