# **Panasonic**

# ideas for life

# **KX-TDA100D**

# **System Capacity**

### Maximum Trunk and Extension Cards

The following number of trunk and extension cards can be installed in the Hybrid IP-PBX for expansion.

Card Type	KX-TDA100D
Trunk Card	7 <sup>*1</sup>
Extension Card	7
Total	7

<sup>\*1</sup> One T1, E1, PRI30, PRI23, or IP-GW4 card counts as 2 cards.

### **Maximum Terminal Equipment**

The following number of items of terminal equipment can be supported by the PBX.

Terminal Equipment Type	Maximum Number		
Telephone	176 <sup>*1</sup>		
SLT	128		
KX-DT300/KX-T7600 series DPT	104		
IP-PT	112		
DSS console	8		
CS	26		
High-density CS	13		
PS	128		
Voice Processing System (VPS)	2		
Doorphone	16		
Door Opener	16		
External Sensor	16		
External Relay	16		

<sup>\*1</sup> When the PBX is equipped with 104 DPTs (Digital XDP), 48 IP-PTs, and 24 SLTs.

# **Option List**

Category Model No		Model No.	Description			
DMPR Option	Card	KX-TDA0196	Remote Card (RMT)			
Trunk Cards		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)			
		KX-TDA0188	E-1 Trunk Card (E1)			
		KX-TDA0189	8-Port Caller ID/Pay Tone Card (CID/PAY8)			
		KX-TDA0193	8-Port Caller ID Card (CID8)			
		KX-TDA0284	4-Port BRI Card (BRI4)			
		KX-TDA0288	8-Port BRI Card (BRI8)			
		KX-TDA0290CE/CJ	PRI Card (PRI30)			
		KX-TDA0290	PRI Card (PRI23)			
		KX-TDA0484	4-Channel VoIP Gateway Card (IP-GW4E)			
		KX-TDA0490	16-Channel VoIP Gateway Card (IP-GW16)			
		KX-TDA1180	8-Port Analogue Trunk Base Card with Caller ID(CLCOT8)			
		KX-TDA1186	8-Port Analogue Trunk Daughter Card with Caller ID(CLCOT8E)			
Extension Car	ds	KX-TDA0143	4 Cell Station Interface Card(CSIF4)			
		KX-TDA0144	8 Cell Station Interface Card(CSIF8)			
		KX-TDA0171	8-Port Digital Extension Card (DLC8)			
		KX-TDA0172	16-Port Digital Extension Card (DLC16)			
		KX-TDA0470	16-Channel VoIP Extension Card (IP-EXT16)			
		KX-TDA1176	16-Port Single Line Telephone Extension with Caller ID and Message Lamp Card(MCSLC16)			
		KX-TDA1178	24-Port Single Line Telephone Extension with Caller ID and Message Lamp Card(MCSLC24)			
Other Cards		KX-TDA0161	4-Port Doorphone Card (DPH4)			
		KX-TDA0162	2-Port Doorphone Card (German Type)(DPH2)			
		KX-TDA0164	4-Port External Input/Output Card (EIO4)			
		KX-TDA0166	16-Channel Echo Canceller Card (ECHO16)			
		KX-TDA0190	Optional 3-Slot Base Card (OPB3)			
		KX-TDA0191	4-Channel Message Card (MSG4)			
		KX-TDA0192	2-Channel Simplified Voice Message Card (ESVM2)			
		KX-TDA0194	4-Channel Simplified Voice Message Card (ESVM4)			
		KX-TDA0410	CTI Link Card (CTI-LINK)			
Optional SD Mer	nory Card	KX-TDA0920	SD Memory Card for Software Upgrade to Enhanced Version			
Cell Stations (CSs)	-	KX-TDA0155	2-Channel Cell Station Unit Using a DLC Card (PT-interface CS) for DECT Portable Station			
		KX-TDA0156	4-Channel Cell Station Unit Using a CSIF Card for DECT Portable Station			
		KX-TDA0158	8-Channel High-density Cell Station Unit Using a DLC Card (PT-interface CS) for DECT Portable Station			
Proprietary		KX-A228	Back-up Battery Cable			
Equipment		KX-A258	Blank Slot Cover			
		KX-T30865	Doorphone			
		KX-T7765	Doorphone			



**KX-TDA100D** 

# Specifications

Original bus (16-bit, 8 MHz, 10 megabytes per second)  Communication Bus: H.100 bus conformity (1024 time slots)  Switching: Non-blocking  Power Input: 100 VAC to 130 V AC; 2.8 A/200 V AC to 240 V AC; 1.7 A; 50 Hz/60 Hz  External Battery: +36 V DC (+12 V DC x 3, recommended maximum capacity is 28 Ah)  Maximum Power Failure Tolerance: 300 ms (without using backup batteries)  Memory Backup Duration: 7 years  Dialling: Trunk Dial Pulse (DP)10 pps, 20 pps Tone (DTMF) Dialling  Extension Dial Pulse (DP)10 pps, 20 pps Tone (DTMF) Dialling  Extension Dial Pulse (DP)10 pps, 20 pps Tone (DTMF) Dialling  Brequency: 20 Hz/25 Hz (selectable)  Trunk Loop Limit: 1600 \( \Omega \text{ maximum} \)  Operating Environment: Temperature 0°C to 40°C Humidity 10 % to 90 % (non-condensing)  Conference Call 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  Paging: Internal Level Control:-15 dB to +6 dB in 3 dB steps  External 2 ports (Volume Control:-15 dB to +15 dB in 1 dB steps)  Serial Interface Port: RS-232C 1 (maximum 115.2 kbps)  Serial Interface Port: RS-232C 1 (maximum 115.2 kbps)  Extension Connection Cable:  SLT 1-pair wire (T, R) 1-pair wire (D1, D2) 2-pair wire (T, R) 1-pair wire (D1, D2)	Specification	S					
Original bus (16-bit, 8 MHz, 10 megabytes per second)  Communication Bus: H.100 bus conformity (1024 time slots)  Switching: Non-blocking  Power Input: 100 VAC to 130 V AC; 2.8 A/200 V AC to 240 V AC; 1.7 A; 50 Hz/60 Hz  External Battery: +36 V DC (+12 V DC x 3, recommended maximum capacity is 28 Ah)  Maximum Power Failure Tolerance: 300 ms (without using backup batteries)  Memory Backup Duration: 7 years  Dialling: Trunk Dial Pulse (DP)10 pps, 20 pps Tone (DTMF) Dialling  Extension Dial Pulse (DP)10 pps, 20 pps Tone (DTMF) Dialling  Extension Dial Pulse (DP)10 pps, 20 pps Tone (DTMF) Dialling  Brequency: 20 Hz/25 Hz (selectable)  Trunk Loop Limit: 1600 \( \Omega \text{ maximum} \)  Operating Environment: Temperature 0°C to 40°C Humidity 10 % to 90 % (non-condensing)  Conference Call 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  Paging: Internal Level Control:-15 dB to +6 dB in 3 dB steps  External 2 ports (Volume Control:-15 dB to +15 dB in 1 dB steps)  Serial Interface Port: RS-232C 1 (maximum 115.2 kbps)  Serial Interface Port: RS-232C 1 (maximum 115.2 kbps)  Extension Connection Cable:  SLT 1-pair wire (T, R) 1-pair wire (D1, D2) 2-pair wire (T, R) 1-pair wire (D1, D2)	КХ-ТС	DA100D					
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Non-blocking  Power Input: 100 VAC to 130 V AC; 2.8 A/200 V AC to 240 V AC; 1.7 A; 50 Hz/60 Hz  External Battery: +36 V DC (+12 V DC x 3, recommended maximum capacity is 28 Ah)  Maximum Power Failure Tolerance: 300 ms (without using backup batteries)  Memory Backup Duration: 7 years  Dialling: Trunk Dial Pulse (DP)10 pps, 20 pps Tone (DTMF) Dialling  Extension Dial Pulse (DP)10 pps, 20 pps Tone (DTMF) Dialling  Bode Conversion: DP-DTMF, DTMF-DP  Ring Frequency: 20 Hz/25 Hz (selectable)  Trunk Loop Limit: 1600 Ω maximum  Operating Environment: Temperature 0°C to 40°C  Humidity 10 % to 90 % (non-condensing)  Conference Call 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  Paging: Internal Level Control:-15 dB to 46 dB in 3 dB steps  External 2 ports (Volume Control:-15 dB to +15 dB in 1 dB steps)  Serial Interface Port: RS-232C 1 (maximum 115.2 kbps)  USB 1  Extension Connection Cable:  SLT 1-pair wire (T, R) 1-pair wire (D1, D2) 2-pair wire (T, R) 1-pair wire (D1, D2)	Communication Bus: H.100 bus conformity (1024 time slots)						
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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  Paging: Internal Level Control:-15 dB to +6 dB in 3 dB steps  External 2 ports (Volume Control:-15 dB to +15 dB in 1 dB steps)  Serial Interface Port:  RS-232C 1 (maximum 115.2 kbps)  USB 1  Extension Connection Cable: SLT 1-pair wire (T, R) DPT 1-pair wire (D1, D2) or 2-pair wire (T, R, D1, D2)  1-pair wire (D1, D2)  PT-interface CS (High-density) DSS Console and Add-on Key Module 1-pair wire (D1, D2) 1-pair wire (D1, D2) 1-pair wire (D1, D2) 1-pair wire (D1, D2)	Operating Environment: Temperature 0°C to 40°C Humidity 10 % to 90 % (non-	condensing)					
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Internal	MOH1:External Music Source port	i i i i i i i i i i i i i i i i i i i					
RS-232C 1 (maximum 115.2 kbps)  Extension Connection Cable:  SLT 1-pair wire (T, R) 1-pair wire (D1, D2) or 2-pair wire (T, R, D1, D2)  PT-interface CS (High-density) DSS Console and Add-on Key Module 1-pair wire (D1, D2)	Paging: Internal Level Control:-15 dB to +6 dB in 3 dB steps						
SLT	Serial Interface Port: RS-232C 1 (maximum 115.2 kbp USB 1	s)					
DPT 1-pair wire (D1, D2) or 2-pair wire (T, R, D1, D2) PT-interface CS PT-interface CS (High-density) DSS Console and Add-on Key Module 1-pair wire (D1, D2) 1-pair wire (D1, D2)	Extension Connection Cable:						
PT-interface CS 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)	SLT DPT	1-pair wire (D1, D2) or					
Dimension:	PT-interface CS PT-interface CS (High-density) DSS Console and Add-on Key Module	1-pair wire (D1, D2) 4-pair wire (D1, D2)					
334 mm (W) x 390 mm (H) x 270 mm (D)	<b>Dimension:</b> 334 mm (W) x 390 mm (H) x 270 r	mm (D)					
Weight (when fully mounted): Under 12 kg	Weight (when fully mounted):	Under 12 kg					

Compatible Panasonic Proprietary Telephones
The PBX supports the following telephones:

1. Digital proprietary telephones (e.g., KX-DT300 series) • IP proprietary telephones (e.g., KX-DT300 series) • Portable stations (e.g., KX-TCA355, KX-TCA256) • DSS consoles (e.g., KX-DT300) • Single line telephones (e.g., KX-T7710) Incompatible Panasonic Proprietary Telephones

1. Depth does not support the following telephones:

1. KX-T7400 series digital proprietary telephones • KX-T7500 series digital proprietary telephones • KX-T7

# **System Feature Capacity**

	ltem	KX-TDA100D		Item	KX-TDA100D
	Absent Message-Extension	1 x 16 characters		Routing Plan Table	16 entries
	Absent Message-System	8 x 16 characters		Leading Number Table	16 digits, 1,000 entries
	Call Park Zone	100		Leading Number Exception Table	16 digits, 200 entries
	Conference	3-8 parties per conference (32 parties total)	ARS	ARS Carrier	10
	COS	64		Itemised Billing Code	10 digits
	DID/DDI Table	32 digits, 1,000 entries		Authorisation Code for Tenant	16 digits
	Extension Number	1-5 digits (1-4 digits for PSs)		Authorisation Code for Trunk Group	10 digits
	Extension Personal Identification Number (PIN)	10 digits, 1 entry/extension		Outgoing Call Log - PT	100 records/extn. 1,520 records/system
	Host PBX Access Code	10 digits, 10 entries/trunk group	Call Log	Outgoing Call Log - PS	100 records/extn. 640 records/system 100 records/extn. 3,040 records/system
		3 .		Incoming Call Log - PT	
	Multiple Subscriber Number (MSN)	10 entries per ISDN-BRI port	and	Incoming Call Log - PS + Incoming Call Distribution Group	100 records/extn. or group Total 2,048 records/system
	Number of the Characters of Name	20	Message Waiting	,	Total 2,046 records/system
ystem	Printing Message	8	waiting	Message Waiting - PS +	256
	Queuing Time Table	64		Incoming Call Distribution Group	
	Ring Tone Pattern Plan	8		Message Waiting - PT + SLT	512
		<ul> <li>one system programmer + 63 personal programmers</li> </ul>		Outgoing Message (OGM)	64
	Simultaneous Programmers	<ul> <li>one manager programmer + 63 personal programmers</li> <li>64 personal programmers</li> </ul>	Voice Message	OGM Total Recording Time	MSG4 Card: 8 minutes; ESVM2/ESVM4 Card: 20 minutes (at High recording quality)
	SMDR Call Storage	2500 calls		Built-in Simplified Voice Message (SVM)	ESVM2/ESVM4 Card: 250 messages per card/block
	Special Carrier Access Code	16 digits, 20 entries		COMAT + ID II T	ESVM2/ESVM4 Card: 20, 60, or 120 minutes
	Tenant	8		SVM Total Recording Time	(depending on the recording quality)
	Time Service Holiday	24	11 20 120	Billing items for guest rooms	2,500 records/PBX
	Verification Code	4 digits, 1,000 entries	Hospitality and Charge Management	Hotel Operator	4
	Verification Code Personal	3		Charge Rate	7 digits including a decimal
	Identification Number (PIN)	10 digits, 1,000 entries	Features	Charge Denomination	3 currency characters/symbols
	Emergency Call	32 digits, 10 entries		TIE Line Routing and Modification Table	32 entries
	Hot Line	32 digits	Networking	Leading Number	3 digits
	Key Pad Protocol Dial	, and the second		PBX Code	7 digits
	(ISDN Service Access)	32 digits		NDSS: Monitored PBXs	8
ialling	Personal Speed Dialling	32 digits, 100 entries/extn.		NDSS: Registered Extensions	250
	Quick Dialling	4080 entries (80: basic memory [4 digits],		for Monitor PBX	
	- " -	4000: expansion memory [8 digits])	СТІ	PC Console	8
	Redial	32 digits		PC Phone	64
	System Speed Dialling	32 digits, 1,000 entries/tenant		System Password for Installer	4 - 10 characters
	Broadcasting Group	8 (32 members/group)		System Password for Administrator —	4 - 10 characters
	Call Pickup Group	64	Password	for PC Programming	
	Idle Extension Hunting Group	64 (16 extensions/group)		System Password for User — for PC Programming	4 - 10 characters
	Incoming Call Distribution Group	128 (32 extensions/group)			
Groups	Paging Group	32		System Password for Administrator — for PT Programming	4 - 10 digits
	PS Ring Group	32			
	Trunk Group	64		System Password for User — for PT Programming	4 - 10 digits
	VM (DPT) Group	2 groups x 12 ports (24 channels)			
	VM (DTMF) Group	2 groups x 32 channels		Manager Password	4 - 10 digits
TRS/ Barring	TRS/Barring Level	7	Pro-	Installer Level Programmer Code	4 - 16 characters
	TRS/Barring Denied Code	16 digits, 100 entries/level	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

# **Features List**

# 1. Call Handling Features

- Incoming Call Features
  Incoming Trunk Call Features
  Incoming Trunk Call Features
   Direct In Line (DIL)
   Direct Invalor Dialling (DID)/Direct Dialling In (DDI)
   Multiple Subscriber Number (MSN) Multiple Subscriber Number (MSN)
  Ringing Service
   Calling Line Identification (CLI) Distribution
   Intercept Routing
   Intercept Routing
   Internal Call Flock
   Internal Call Block
   Intercept Routing

- Incoming Call Indication Features
  Ring Tone Pattern Selection
  Call Waiting

Receiving Group Features
Idle Extension Hunting
Incoming Call Distribution Group Features
• Group Call Distribution
• Outside Destinations in Incoming Call
Distribution Group

- Overflow 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)
  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
- Pause Insértion
- rause 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

- Whisper OHLA Toll Restriction (TRS)/ Call Barring (Barring) Features 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

Off-nook Monitor
Mute
Headset Operation
Data Line Security
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

ConferencePrivacy Release

### **Paging Features**

# Broadcasting Features

Optional Device Features
Doorphone Call
Door Open
Trunk Answer From Any Station (TAFAS)

Trunk Answer From Any Station (TAFAS)
Background Music (BGM)
Outgoing Message (OGM)
Direct Inward System Access (DISA)
Automatic Fax Transfer
Built-in Simplified Voice Message (SVM)
External Capper

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

- Display Information
  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 Busy Subscriber (CCBS) (CCBS)
- ISDN Extension
   ISDN Service Access by Keypad Protocol

### E1 Line Service Features

### **T1 Line Service Features**

Voice Mail Features

Voice Mail 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
Virtual PS

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

## Hospitality Features

Room Status Control Call Billing for Guest Room

Extension Controlling Features
Extension Personal Identification Number (PIN)
Extension Feature Clear 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 (CNIP/CONP) by QSIG
   Call Econyaction (FC), by QSIG
- rresentation (CNIP/CONP) by QSIG
   Call Forwarding (CF) by QSIG
   Call Transfer (CT) by QSIG
   Completion of Calls to Busy Subscriber
  (CCBS) by QSIG
  QSIG Enhanced Features
   Network Direct Station Selection (NDSS)
   Centralised Voice Mail
   Network ICD Group
   Network ICD Group

Cellular Phone Features

-Centralised voice Mail
Network ICD Group
 -PS Roaming by Network ICD Group

IP Proprietary Telephone (IP-PT) Features
IP Proprietary Telephone (IP-PT)

## Computer Telephony Integration (CTI)

Computer Telephony Integration (CTI) PC Phone/PC Console

### 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

Manager Features
System Data Control
PC Programming
PT Programming
Password Security
Quick Setup
Automatic Setup
Flexible Numbering/Fixed Numbering
Floating Extension
Software Upgrading

Fault Recovery/Diagnostics

Power Failure Transfer Power Failure Restart Local Alarm Information

Some models will be available to limited Countries. Design and specifications subject to change without notice.