

TDA100D

System Capacity

Maximum Trunk and Extension Cards

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

Card Type	KX-TDA100D
Trunk Card	7 ^{*1}
Extension Card	7
Total	7

*1 One E1, PRI30 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 ^{*1}
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

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

Option List

Category	Model	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-TDA0183	4-Port Analogue Trunk Card (LCOT4)	
	KX-TDA0184	8-Port E & M Trunk Card (E&M8)	
	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-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 Cards	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)	
	KX-TDA0161	4-Port Doorphone Card (DPH4)	
Other Cards	KX-TDA0162	2-Port Doorphone Card (German Type) (DPH2)	
	KX-TDA0164	4-Port External Input/Output Card (EI04)	
	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 Memory Card	KX-TDA0920	SD Memory Card for Software Upgrade to Enhanced Version
	Cell Stations (CSs)	DECT	KX-TDA0155
		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 Equipment		KX-A228	Back-up Battery Cable
		KX-A258	Blank Slot Cover
		KX-T30865	Doorphone
		KX-T7765	Doorphone

Compatible Panasonic Proprietary Telephones

- The PBX supports the following telephones:
- Digital proprietary telephones (e.g. KX-DT300 series)
 - IP proprietary telephones (e.g. KX-NT300 series)
 - Portable stations (e.g. KX-TCA355, KX-TCA256)
 - DSS consoles (e.g. KX-DT390)
 - Single line telephones (e.g. KX-T7710)

Incompatible Panasonic Proprietary Telephones

- The PBX does not support the following telephones:
- KX-T7400 series digital proprietary telephones
 - KX-T7500 series digital proprietary telephones
 - Analogue proprietary telephones (e.g. KX-T7700 series)
 - KX-T30800 series proprietary telephones and DSS consoles
 - KX-NT400 and KX-NT366 IP proprietary phones



KX-TDA100D

Specifications

KX-TDA100D	
Control Bus 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 V AC 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:	Dial Pulse (DP)10 pps, 20 pps Tone (DTMF) Dialling Dial Pulse (DP)10 pps, 20 pps Tone (DTMF) Dialling
Trunk Extension	
Mode Conversion: DP-DTMF, DTMF-DP	
Ring Frequency: 20 Hz/25 Hz (selectable)	
Trunk Loop Limit: 1600 Ω maximum	
Operating Environment	0 C to 40 C Humidity 10 % to 90 % (non-condensing)
Temperature Humidity	
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:	Level Control: -15 dB to +6 dB in 3 dB steps 2 ports (Volume Control: -15 dB to +15 dB in 1 dB steps)
Internal External	
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) 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)
Dimension: 334 mm (W) x 390 mm (H) x 270 mm (D)	
Weight (when fully mounted):	Under 12 kg

System Feature Capacity

	Item	KX-TDA100D		Item	KX-TDA100D
System	Absent Message-Extension	1 x 16 characters	ARS	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 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
	Extension Personal Identification Number (PIN)	10 digits, 1 entry/extension		Outgoing Call Log - PS	100 records/extn. 640 records/system
	Host PBX Access Code	10 digits, 10 entries/trunk group		Incoming Call Log - PT	100 records/extn. 3,040 records/system
	Multiple Subscriber Number (MSN)	10 entries per ISDN-BRI port	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 - PS + Incoming Call Distribution Group	256	
	Printing Message	8	Message Waiting - PT + SLT	512	
	Queuing Time Table	64	Outgoing Message (OGM)	64	
	Ring Tone Pattern Plan	8	OGM Total Recording Time	MSG4 Card: 8 minutes; ESVM2/ESVM4 Card: 20 minutes (at High recording quality)	
	Simultaneous Programmers	one system programmer + 63 personal programmers one manager programmer + 63 personal programmers 64 personal programmers	Built-in Simplified Voice Message (SVM)	ESVM2/ESVM4 Card: 250 messages per card/block	
	SMDR Call Storage	2500 calls	SVM Total Recording Time	ESVM2/ESVM4 Card: 20, 60, or 120 minutes (depending on the recording quality)	
	Special Carrier Access Code	16 digits, 20 entries	SVM Total Recording Time	ESVM2/ESVM4 Card: 20, 60, or 120 minutes (depending on the recording quality)	
	Tenant	8	Billng items for quest rooms	2,500 records/PBX	
	Time Service Holiday	24	Hotel Operator	4	
Verification Code	4 digits, 1,000 entries	Charge Rate	7 digits including a decimal		
Verification Code Personal Identification Number (PIN)	10 digits, 1,000 entries	Charge Denomination	3 currency characters/symbols		
Dialling	Emergency Call	32 digits, 10 entries	TIE Line Routing and Modification Table	32 entries	
	Hot Line	32 digits	Leading Number	3 digits	
	Key Pad Protocol Dial (ISDN Service Access)	32 digits	PBX Code	7 digits	
	Personal Speed Dialling	32 digits, 100 entries/extn.	NDSS: Monitored PBXs	8	
	Quick Dialling	4080 entries (80: basic memory [4 digits], 4000: expansion memory [8 digits])	NDSS: Registered Extensions for Monitor PBX	250	
Groups	Redial	32 digits	PC Console	8	
	System Speed Dialling	32 digits, 1,000 entries/tenant	PC Phone	64	
	Broadcasting Group	8 (32 members/group)	System Password for Installer	4 - 10 characters	
	Call Pickup Group	64	System Password for Administrator — for PC Programming	4 - 10 characters	
	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)	System Password for Administrator — for PT Programming	4 - 10 digits	
	Paging Group	32	System Password for User — for PT Programming	4 - 10 digits	
	PS Ring Group	32	Manager Password	4 - 10 digits	
	Trunk Group	64	Installer Level Programmer Code	4 - 16 characters	
	VM (DPT) Group	2 groups x 12 ports (24 channels)	Administrator Level Programmer Code	4 - 16 characters	
VM (DTMF) Group	2 groups x 32 channels	User Level Programmer Code	0 - 16 characters		
TRS/Barring	TRS/Barring Level	7			
	TRS/Barring Denied Code	16 digits, 100 entries/level			
	TRS/Barring Exception Code	16 digits, 100 entries/level			

Feature List

1. Call Handling Features

Incoming Call Features

Incoming Trunk 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 Features

- Internal Call Block
- 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

- 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)
- 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 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-77710 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

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

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

- Conference
- Privacy Release

Paging Features

Broadcasting Features

Optional Device Features

Doorphone Call

Door Open

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 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

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
- 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

T1 Line Service 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

TIE Line Service

Voice over Internet Protocol (VoIP) Network

Virtual Private Network (VPN)

OSIG Standard Features

- Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP) - by OSIG

- Call Forwarding (CF) - by OSIG
- Call Transfer (CT) - by OSIG
- Completion of Calls to Busy Subscriber (CCBS) - by OSIG

OSIG Enhanced Features

- Network Direct Station Selection (NDSS)
- Centralised Voice Mail Network (CO Group)
- PS Roaming by Network ICD Group

IP Proprietary Telephone (IP-PT) Features

IP Proprietary Telephone (IP-PT)

Computer Telephony Integration (CTI) Features

Computer Telephony Integration (CTI)

PC Phone/PC Console

Cellular Phone Features

2. System Configuration and Administration Features

System Configuration - Hardware

System Port Configuration

System Configuration - Software

Class of Service (COS)

Group

Tenant Service

Time Service

Operator Features

Manager Features

System Data Control

PC Programming

PT Programming

Power 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