Panasonic

ideas for life

KX-TDA600 (PLMPR Ver. 5.0)

System Capacity

Maximum Trunk and Extension

The PBX supports the following number of trunks and extensions.

Туре		Basic System	2-shelf System	3-shelf System	4-shelf System 640	
Trunk		160	320	480		
Extension	PT	256	512	640 *1	640 *1	
	SLT	240	480	720	960	
	PT + SLT	304	608	880	1120	

^{*1} The maximum number of PTs in the whole system is limited to 640.

Maximum Terminal Equipment

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

			KX-TDA600			
		Basic System	2-Shelf System	3-Shelf System	4-Shelf System	
Telephone		240	480	720	960	
(using Digital XDP)		(304)*1	(608)*1	(880)*1	(1120)*1	
	SLT	240	480	720	960	
	KX-T7600 series DPT	256	512	640	640	
	Other DPT	128	256	384	512	
	APT	80	160	240	320	
	IP-PT	160	320	480	640	
Trunk	Trunk		320	480	640	
DSS console	S console 64					
Basic CS		32	64	96	128	
High-density CS		16	32	48	64	
PS (without an EMEC	6 (without an EMEC card) 256					
PS (with an EMEC card)			512			
Voice Processing Sys	stem (VPS) *2		8			
Doorphone		16	32	48	64	
Door Opener		16	32	48	64	
External Sensor		16	32	48	64	
External Relay		16	32	48	64	



Line-up

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

Option List for TDA600

Cate	gory	Model No.	Description
EMPR Optional Card Optional Shelf Expansion		KX-TDA6105	Memory Expansion Card (EMEC)
		KX-TDA0196	Remote Card (RMT)
		KX-TDA6110	Bus Master Card (BUS-M)
Cards		KX-TDA6111	Bus Master Expansion Card (BUS-ME)
Expansion Shelf		KX-TDA620	Expansion Shelf
Built-in Shelf Expansion Card			Bus Slave Card (BUS-S)
Mounting Kit		KX-TDA6201	Mounting Kit for expanding to a 3- or 4- shelf System
Trunk Cards		KX-TDA0182	8-Port DID Card (DID8)
		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-TDA6181	16-Port Analogue Trunk Card (ELCOT16)
Extension Car	rds	KX-TDA0143	4 Cell Station Interface Card (CSIF4)
		KX-TDA0144	8 Cell Station Interface Card (CSIF8)
		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 Extension Card (SLC8)
		KX-TDA0177	16-Port Single Line Telephone Extension Card with Caller ID (CSLC16)
		KX-TDA0470	16-Channel VoIP Extension Card (IP-EXT16)
		KX-TDA6174	16-Port Single Line Telephone Extension Card (ESLC16)
		KX-TDA6175	16-Port Single Line Telephone Extension with Message Lamp Card (EMSLC16)
		KX-TDA6178	24-Port Single Line Telephone Extension Card with Caller ID (ECSLC24)
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-TDA0168	Extension Caller ID Card (EXT-CID)
		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)
		KX-TDA6166	16-Channel Echo Canceller Card (EECHO16)
Optional SD N	Nemory Card	KX-TDA6920	SD Memory Card for Software Upgrade to Enhanced Version
Power Supply	•	KX-TDA0103	L-Type Power Supply Unit (PSU-L)
		KX-TDA0104	M-Type Power Supply Unit (PSU-M)
Cell Stations	2.4 GHz	KX-TDA0151	2-Channel Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for 2.4 GHz Portable Station
(CSs)		KX-TDA0152	3-Channel Cell Station Unit Using a CSIF Card for 2.4 GHz Portable Station
	DECT	KX-TDA0155CE	2-Channel Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT Portable Station
		KX-TDA0156CE	4-Channel Cell Station Unit Using a CSIF Card for DECT Portable Station
		KX-TDA0158CE	8-Channel High-density Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT Portable Station
	DECT 6.0	KX-TDA0155	DECT 6.0 2-Channel Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT 6.0 Portable Station
		KX-TDA0156	DECT 6.0 4-Channel Cell Station Unit Using a CSIF Card for DECT 6.0 Portable Station
		KX-TDA0158	DECT 6.0 8-Channel Cell Station Unit Using a DHLC/DLC Card (PT-interface CS) for DECT 6.0 Portable Station
Proprietary Equipment		KX-A228	S/M-type Back-up Battery Cable
oprietary E	quipinent	KX-A229	L-type Back-up Battery Cable
		KX-A229 KX-A258	E-type Back-up Battery Cable Blank Slot Cover
		KX-A258 KX-T7765	
		KA-1//05	Doorphone

Specifications

KX-TDA600					
Control Bus:					
Original bus (16-bit, 8 MHz, 10 megabytes per second)					
Communication Bus:					
H.100 bus conformity (1024 time slots)					
Switching:					
Distributed Switching					
Power Input:					
PSU-M 100 V AC to 130 V AC; 2.5 A/200 V AC to 240 V AC; 1.4 A;50 Hz/60 Hz					
PSU-L 100 V AC to 130 V AC; 5.1 A/200 V AC to 240 V AC; 2.55 A;50 Hz/60 Hz					
External Battery:					
+36 V DC (+12 V DC x 3, recommended maximum capacity per shelf 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					
Mode 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 (per shelf):					
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)					
APT 2-pair wire (T,R,D1,D2)					
PT-interface CS (Basic) 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:					
Basic Shelf 430 mm (W) x 415 mm (H) x 270 mm (D)					
Expansion Shelf 430 mm (W) x 415 mm (H) x 270 mm (D)					
Weight (when fully mounted):					
Basic Shelf Under 16 kg					
Expansion Shelf Under 16 kg					
Expansion shell officer to kg					
Compatible Panasonic Proprietary Telephones The PBX supports the following telephones: Digital proprietary telephones (e.g., KX-DT300 series) Applaque proprietary telephones (e.g., KX-T7700 series)					

- Digital proprietary telephones (e.g., KX-DT300 series)
 Analogue proprietary telephones (e.g., KX-T7700 series)
 IP proprietary telephones (e.g., KX-T7700 series)
 IP proprietary telephones (e.g., KX-TA46, KX-TT343, KX-TT321)
 Potrable stations (e.g., KX-TCA275, KX-TCA175, KX-TCA256, KX-TCA364/355, KX-TD7690)
 DSS consoles (e.g., KX-T7640)
 Single line telephones (e.g., KX-T7710)
 Incompatible Panasonic Proprietary Telephones
 The PBX does not support the following telephones:
 KX-T30800 series proprietary telephones and DSS consoles
 KX-T130800 series proprietary telephones and DSS consoles
 KX-T123200 series proprietary telephones and DSS consoles
 KX-T17500 DECT portable station

System Feature Capacity

	ltem	KX-TDA600		Item	KX-TDA600
	Absent Message-Extension	1 x 16 characters		Routing Plan Table	48 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	Each shelf:3-8 parties per conference (32 parties total)	ARS	ARS Carrier	48
	COS	64		Itemised Billing Code	10 digits
	DID/DDI Table	32 digits, 1,000 entries		Authorisation Code for Tenant	16 digits
				Authorisation Code for Trunk	10 digits
	Extension Number	1-5 digits (1-4 digits for PSs)		Outgoing Call Log - PT	100 records/extn. 3,200 records/system
	Extension Personal Identification			Outgoing Call Log - PS	100 records/extn. 2,560 records/system
	Number (PIN)	10 digits, 1 entry/extension		Incoming Call Log - PT	100 records/extn. 6,400 records/system
	Host PBX Access Code	10 digits, 10 entries/trunk group	Call Log and	Incoming Call Log - PS + Incoming	100 records/extn.or group
	Multiple Subscriber Number (MSN)	10 entries per ISDN-BRI port	Message	Call Distribution Group	Total 6,400 records/system
	Number of the Characters of Name	20	Waiting	·	Total of too records/ system
stem	Printing Message	8		Message Waiting - PS + Incoming Call Distribution Group Message Waiting - PT + SLT	640
	Queuing Time Table	128			1.032
	Ring Tone Pattern Plan	8		Outgoing Message (OGM)	64
	King Ione Pattern Plan	-		Outgoing Message (OGM)	
	C' II D	• one system programmer + 63 personal programmers		OGM Total Recording Time	MSG4 Card:8 minutes;ESVM2/ESVM4 Card:20 minute
	Simultaneous Programmers	one manager programmer + 63 personal programmers 64 personal programmers	Voice	D : - C: :C \(\frac{1}{2}\) 14 (C) (A4)	(at High recording quality)
	SLIPP S. U.S.	1 1 3	Message	Built-in Simplified Voice Message (SVM)	ESVM2/ESVM4 Card: 250 messages per card/block
	SMDR Call Storage	1,000 calls (4,000 calls w/EMEC card)		SVM Total Recording Time	ESVM2/ESVM4 Card: 20, 60, or 120 minutes
	Special Carrier Access Code	16 digits,100 entries		3	(depending on the recording quality)
	Tenant	32	Hospitality	Billing items for guest rooms (only available w/ EMEC or MEC)	8000 records/PBX
	Time Service Holiday	24	and Charge	Hotel Operator	4
	Verification Code	4 digits, 1,000 entries	Management Features	Charge Rate	7 digits including a decimal
	Verification Code Personal	10 digits, 1,000 entries	reatures	Charge Denomination	3 currency characters/symbols
	Identification Number (PIN)	3		TIE Line Routing and Modification Table	32 entries
	Emergency Call	32 digits, 10 entries		Leading Number	3 digits
	Hot Line	32 digits	Networking	PBX Code	7 digits
	Key Pad Protocol Dial (ISDN Service Access)	32 digits		NDSS:Monitored PBXs	8
Dialling	Personal Speed Dialling	Without EMEC: 32 digits, 10 entries/extn.		NDSS:Registered Extensions for Monitor PBX	250
		With EMEC: 32 digits, 100 entries/extn.	СТІ	PC Console	8
	Quick Dialling	4 digits, 80 entries (an additional 4,000 8 digit entries w/EMEC Card)	CII	PC Phone	128
	Redial	32 digits		System Password for Installer	4 - 10 characters
	System Speed Dialling	Without EMEC: 32 digits, 1,000 entries. With EMEC: Additional 1,000 32-digit entries/tenant.		System Password for Administrator — for PC Programming	4 - 10 characters
	Broadcasting Group	8 (32 members/group)		System Password for User —	
Groups	Call Pickup Group	96		for PC Programming	4 - 10 characters
	Idle Extension Hunting Group	128 (16 extensions/group)	Password	System Password for Administrator —	
	Incoming Call Distribution Group	128 (128 extensions/group)		for PT Programming	4 - 10 digits
	Paging Group	96		System Password for User —	
	PS Ring Group	32		for PT Programming	4 - 10 digits
	Trunk Group	96		Manager Password	4 - 10 digits
	VM (DPT) Group	8 groups x 12 ports (24 channels)		Installer Level Programmer Code	4 - 16 characters
	VM (DFT) Group	8 groups x 32 channels	Pro- grammer	Administrator Level Programmer Code	4 - 16 characters
	TRS/Barring Level	o groups x 32 channels	Code	User Level Programmer Code	0 - 16 characters
RS/	TRS/Barring Denied Code	16 digits, 100 entries/level		osei Levei Flogiallillei Code	U - 10 Cilaiacteis
Barring	TRS/Barring Denied Code TRS/Barring Exception Code	16 digits, 100 entries/level			
	LKV/Rarring Evcention Loge				

Features 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)
- 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

- 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

- 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-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

- EXECUTIVE BUSY OVERTIGE
 CAll Monitor
 Second Call Notification to Busy Extension
 Call Waiting Tone
 Off-Hook Call Announcement (OHCA)
 Whisper OHCA

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

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

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)

- Integrated Services Digital Network (ISD 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

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 Forwarding (CF) by QSIG
 Call Transfer (CT) by QSIG
 Campletion of Calls to Busy Subscriber
 (CCBS) by QSIG
 QSIG Enhanced Features
 Network Direct Station Selection (NDSS)
 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)

Computer Telephony Integration (CTI)
PC Phone/PC Console

Cellular Phone Features

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

System Data Control PC Programming PT Programming Password Security

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