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**The Nimans
Straightforward Guide to**

Panasonic

08

nimans

Panasonic

Contents

Why choose Panasonic?

An efficient communication system is at the heart of any successful business. These feature-rich Panasonic systems offer advanced IP-Hybrid PBX solutions that are second to none.

CTI (Computer Telephony Integration)

Combining voice & data resources to manage customer information, and ensure it's effective use has never been easier. Panasonic's CTI solutions and Desktop Telephony Assistant now have the ability to integrate a users PC to access features of the phone system such as screen popping, autodial and call logging of customer information (see p27).

Live ACD stats

These powerful applications bring the combined power of monitoring, analysing and reporting for an informal call centre (see p24 for CommsOffice).

VoIP (Voice over Internet Protocol)

For a communication system that works seamlessly with IT - you need a system that also combines voice and data in one low-cost, next generation, hybrid solution. Upgrading now to a Panasonic KX-TDA system gives you the option to gradually migrate to VoIP at any time.

Panasonic VoIP options:

- IP Networking & IP Extensions (see p23)

Why choose Nimans?

Nimans are one of the UK's biggest and best known distributors for voice, data and telecoms.

Our fundamental principal of serving the customer is reflected with our commitment to you, the dealer.

The complete service wrap covers expert technical support, next working day delivery and excellent stock holding.

- Easy ordering from knowledgeable staff
- Pre & post sales technical support from our specialist Avaya team
- Dedicated field-based sales support available

- Competitive industry prices
- Next day delivery guaranteed
- Order as late as 6.30pm Mon-Thur, 5.30pm Fri
- Training courses for fast track accreditation
- Over 4,000 products in stock

Nimans are also the biggest distributor of headsets and audio conferencing equipment in Europe - ideal for your margin-rich add-on sales.

For more information visit the Nimans website at **www.nimans.net**.

Plus! Nimans marketing services

Your very own version of this brochure including your logo, contact details, prices and colour scheme. Available in print or emailable PDF version - call the Panasonic team to find out more. For more bespoke marketing services, call for details.

Visit us at **www. nimans.net/ panasonic** *for everything Panasonic*

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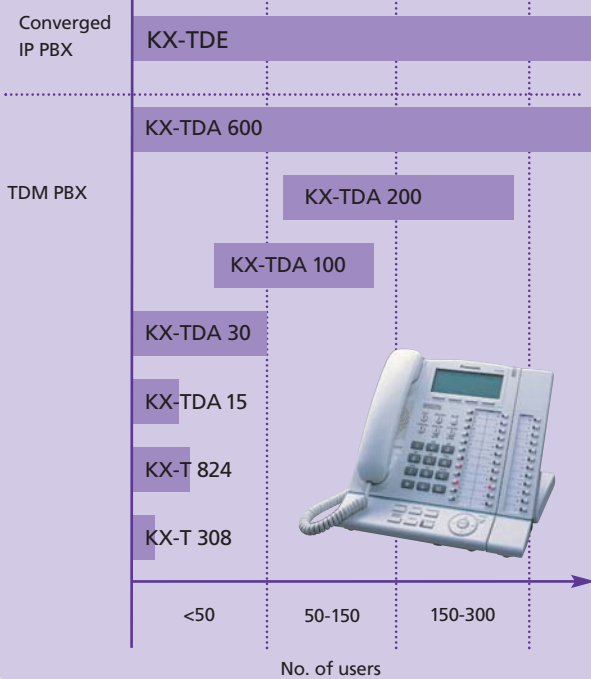
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Overview

The Panasonic range

Market segments (according to technology)

Converged IP PBX
- KX-TDE

TDM PBX
- KX-TDA 600
- KX-TDA 200
- KX-TDA 100
- KX-TDA 30
- KX-TDA 15
- KX-T 824
- KX-T 308

No. of users: <50 | 50-150 | 150-300

How to use this guide

To select the hardware components for your system, establish the capacity requirements and then choose from the available control units, trunk cards, daughter cards and expansion modules.

1 Determine the number and type of trunks/lines they need (their connections to the outside world
- analogue/ISDN2/ ISDN30 or IP)
- this will help establish the type of switch to choose.

2 Next, find out how many extensions they require. Extensions can be any of the following: individual users, faxes, DECT, modems, or Remote Home Workers.

3 Finally, determine whether the customer needs additional voice mail, door entry, call queuing, CLI, CTI, etc. Do they require standalone or integrated DECT?

4 With this information you can begin to configure the best system for your customer. Once you've established your customer's requirements we will be happy to help you with your order and any advice for future add-on sales.

System	Analogue Ext	Digital Ext	Lines	Mobility	Applications
KX-T 308	●		Analogue	DECT	CTI Call recording
KX-T 824	●				
KX-TDA 15	●	●	Analogue ISDN2, SIP	DECT System DECT GSM integration	CTI Call recording ACD Unified Messaging
KX-TDA 30	●	●	ISDN2 ,SIP		
KX-TDA 100	●	●	ISDN30		
KX-TDA 200	●	●			
KX-TDA 600	●	●			

KX-T 308
KX-T 824

The KX-T 308 is the ideal solution for small businesses or home offices requiring a flexible PBX system with a high degree of sophistication.

Initial Configuration

- 3 lines
- 8 extensions

It can cost effectively support all your customers personal and business communication needs and is supplied fully configured for 3 lines and 8 extensions.

Packed with many features, the KX-T 308 features an optional internal voice message card with 8 mailboxes and 60 minutes recording time.

(Main system features
- see bottom right)

What to Buy for Business Best buy ★★★★

Internal voice mail option

Code	Description	Max cards	SSP ex VAT
Central control unit			
27904	KX-T 308 CCU (3 lines, 8 extensions)		£299.00
Option cards			
27526	Caller ID card for 3 lines* KX-TES82493	1	£99.00
27905	2 port door phone/interface card KX-TE82460	1	£65.00
27525	2 channel voice message card (8 mailboxes, 60 minutes) KX-TE82492	1	£300.00
12989	Doorphone unit KX-T 30865	2	£25.00
*Subject to availability from the network			

The KX-T 824 Advanced Hybrid PBX system provides features that can satisfy the demands of even the most advanced users.

Initial Configuration

- 3 lines
- 8 extensions

Maximum Configuration

- 8 lines
- 24 extensions (16 hybrid x 8 SLT)

Pre-configured for 3 lines and 8 extensions, it can be expanded to a maximum of 8 lines and 24 extensions. The KX-T 824. It also features an optional internal voice message card with 24 mailboxes and 60 minutes recording time.

The new features added are:
- 1ch DISA/Message on busy (built-in)
- Fax detect (built-in)
- CLI (optional)
- Modem (built-in)
- USB for PC programming (built-in)
- Internal voice mail (optional)
- Extension CLI (built in)

Internal voice mail option

Code	Description	Max cards	SSP ex VAT
Central control unit			
27520	KX-T 824 CCU (3 lines, 8 extensions)		£499.00
Option cards			
27521	8 port SLT card KX-TES82474	1	£220.00
27522	2 port analogue line & 8 SLT extn card KX-TES82480	1	£280.00
27523	3 port analogue line & 8 hybrid extn card KX-TES82483	1	£300.00
27524	1ch DISA outgoing message card/fax detection KXT82491	1	£169.00
27525	2ch voice message card (24 mailboxes, 60 mins) KX-TES82492	1	£300.00
27526	Caller ID card for 3 lines* KX-TES82493	3	£99.00
27527	Doorphone/release card for 4 doorphones KX-TES82461	1	£89.00
27905	Doorphone/door release card for 2 doorphones KX-TE82460	1	£65.00
12989	Doorphone unit KX-T30865	4	£25.00
*Subject to availability from the network			

System Keyphones

	KX-T 7735	KX-T 7730	KX-T 7720	KX-T 7750
Alphanumeric display (lines x characters)	3 x 16	1 x 16	-	-
Programmable keys with dual colour LEDs	12	12	12	12
Programmable feature (PF) keys	12	-	-	-
Feature access keys (for LCD)	Navigator key	Navigator key	-	-
Handsfree speech	●	●	●	-
SP-Phone (monitor) volume control	Navigator key	Navigator key	Up/down key	Up/down key
Handset volume control	Navigator key	Navigator key	Up/down key	Up/down key
Ringer volume control	Slide switch (off/low/high)	Slide switch (off/low/high)	Slide switch (off/low/high)	Slide switch (off/low/high)
Contrast control	Navigator key	Navigator key	-	-
Incoming call/message lamp	●	●	●	●
Auto-answer/mute	●	●	●	-
Voice call	-	-	-	●
Headset compatible	●	●	-	-

Keyphone configuration table

Basic		Option (KX-T82480) 2CO's / 8 SLTs	Option (KX-TE82483) 3CO's / 8 hybrid ext	Option (KX-TE82474) 8 SLTs
KX-T 308	Outside (CO) Lines: 3 Extensions: 8	-	-	-
KX-T 824	Outside (CO) Lines: 3 Extensions: 8	5 / 16	8 / 24	-
		-	5 / 16	5 / 16
		-	-	5 / 16

Summary of KX-T 308 / KX-T 824 main system features

- Automatic Fax Detect - routes faxes direct to an extension with a fax machine
- Automatic pause insertion
- Call forwarding
- Call hold & pick-up
- Call transfer
- Call waiting
- Conference call
- Data line security
- DISA (built-in)
- Distinctive ringing
- Do not disturb
- Doorphone intercom
- Extension CLI
- Flexible ringing assignment
- Hold reminder
- Intercom
- Last number redial
- Message on busy
- Modem (internal)
- Music on hold port
- Power failure transfer
- Programmable call restriction
- Pulse to tone conversation
- System speed dialling (100 numbers)
- USB for PC programming

Code	Description	SSP ex VAT
21486	**KX-T 7750 12 key, standard, non-display - white**	**£65.00**
21487	KX-T 7750 12 key, standard, non-display - black	£65.00
21484	KX-T 7720 12 key, handsfree, non-display - white	£75.00
21485	KX-T 7720 12 key, handsfree, non-display - black	£75.00
21482	KX-T 7730 12 key, handsfree, 1 line LCD - white	£99.00
21483	KX-T 7730 12 key, handsfree, 1 line LCD - black	£99.00
27606	KX-T 7735 24 key, handsfree, 3 line LCD - white	£120.00
27607	KX-T 7735 24 key, handsfree, 3 line LCD - black	£120.00
23367	KX-T 7710 Business SLT with message LED - white	£37.00
23899	KX-T 7710 Business SLT with message LED - black	£37.00
21488	KX-T 7740 32 key, DSS console - white	£135.00
21489	KX-T 7740 32 key, DSS console - black	£135.00

Visit us at **www. nimans.net/ panasonic** *for everything Panasonic*

KX-T 7735 / KX-T 7730 KX-T 7750

The Pansonic KXT7750 phone is the entry level 12 Key Standard Telephone.
The KXT7750 phone has no display and no speaker phone - only on hook dialling.

KX-T 7730

- Message/Ringer Lamp and
- One-Touch Call Return
- One-Touch Buttons for Quick, easy Dialling
- Data Port for connecting a communications device
- Recall
- Wall Mountable
- 3-Step Ringer Selector
- Up/Down Key

KX-T 7735

- Absent messages
- Call status
- Date and time
- Call duration
- Caller ID is available with an optional card
- One-touch operation
- Direct Station Selection (DSS)
- Log-in/log-out
- Voicemail transfer
- Dual Colour LED's

KX-T 7750

- Conference
- Handsfree Speech/On hook dialling
- Message Lamp
- Multifunction Alphanumeric LCD
- Speaker phone
- FWD/DND
- Red and Green Lamp Status
- Volume control
- Auto Dial
- Auto Answer
- Handsfree answering of intercom calls
- Hearing Aid compatible

KX-T 7710 / KX-T 7720 KX-T 7740

KX-T7710

- TDA systems are able to automatically program all KXT7710s
- One-Touch buttons
- Message/Ringer lamp
- Data port
- Speed dialing
- Headset compatible

KX-T7720

- Conference
- Handfree speech/On hook dialling
- Message Lamp
- Speaker Phone
- FWD and DND
- Menu Screen Prompts
- Red and Green Lamp Status
- Volume Control
- Auto Dial
- Auto Answer
- Hearing Aid compatible
- Wall mountable

KX-T 7740

- Panasonic KX-T7740 48 Button DSS Console.
- Includes 32 DSS Keys with LEDs plus 16 DSS Keys without LEDs.
- Wall Mountable.

KX-TDA 15

The Panasonic KX-TDA 15 combines PBX reliability with IP technology offering an efficient, simple and flexible communication solution.

Initial Configuration

- 4ch ISDN2
- 12 extensions
  (4 digital + 4 DXDP + 4 SLT)

Key features

- Supports CLI to 8 analogue extensions
- 19" rack mountable (option)
- Multi-tenancy operation
- Advanced hotel features
- DISA with messages
- VoIP enabled (trunks only)
- Free hotel application interface software

Voice mail options

- KX-TDA 3192 - internal voice mail card
- 2ch voice message card
- 20 mailboxes
- 60 minutes recording time
- Maximum 2 cards per system
- Fits into available option slot

Alternatively the KX-TVM 50 or KX-TVM 200 voice mail systems can be used with this system.

Internal voice mail option

Digital Extra Device Port (DXDP)

Each KX-T 7600 series digital keyphone has a DXDP which allows an additional keyphone to be connected to the system giving users extra flexibility at no extra cost.

The KX-TDA 15 system requires the initial keyphone to be connected to a hybrid extension port.

The secondary handset is then connected to a port on the master phone, providing a totally separate extension (see diagram below).

Extra Device Port (XDP)

When connected to a hybrid port, XDP is also available.

- Each proprietary digital keyphone (excluding the KX-T 7668) has an Extra Device Port (XDP) which allows an additional SLT to be connected to the system
- Each hybrid port can support both DXDP & XDP (i.e. 2 x 7600 series keyphones + 1 x SLT per hybrid extension port)
- Each keyphone & SLT can have a unique extension number
- The SLT can be programmed in parallel mode – primary keyphone & SLT will ring as one

Maximum 500m cable   Maximum 50m cable

KX-TDA 15   T7636, T7633, T7630, T7668   T7636, T7633, T7630, T7668

Code	Description	SSP ex VAT
25852	**KX-TDA15 CCU** **(4ch ISDN2 & 4 digital + 4 D-XDP + 4 SLT) with caller ID**	**£799.00**
Line cards		
25853	2 port analogue line card KX-TDA3183	£125.00
25854	2 channel ISDN2 card KX-TDA3283	£275.00
24716	4 channel ISDN2 card KX-TDA 3280	£475.00
24721	4 channel VoIP trunk card KX-TDA 3480	£675.00
31775	KX-3450x 4 ch SIP trunk card	£406.00
31776	KX-3451x 4 ch SIP DSP card	£203.00
Extension cards		
31774	KX-TDA 3470x 4 ch IP extension card	£581.10
24715	8 port SLT ext card KX-TDA 3174	£360.00
24714	8 port digital extension card KX-TDA 3172	£260.00
Option cards		
24724	8 channel echo cancel card KX-TDA 3166	£360.00
24720	2 channel message card KX-TDA 3191	£290.00
24723	4 port door phone KX-TDA 3161	£150.00
28172	Voice mail card KX-TDA 3192	£300.00
24726	KX-TDA 19" rack kit KXA 244X	£44.00
28174	KX-TDA 3920 SD card v3 enhanced	£250.00
Keyphones		
30073	KX-T 7668 8 key, 1 line LCD speakerphone - white	£71.00
30074	KX-T 7668 8 key, 1 line LCD speakerphone - black	£71.00
22953	KX-T 7630 24 key, 3 line LCD speakerphone - white	£180.00
22954	KX-T 7630 24 key, 3 line LCD speakerphone - black	£180.00
22951	KX-T 7633 24 key, 3 line backlit LCD - white*	£200.00
22952	KX-T 7633 24 key, 3 line backlit LCD - black*	£200.00
22949	KX-T 7636 24 key, 6 line backlit LCD - white*	£260.00
22950	KX-T 7636 24 key, 6 line backlit LCD - black*	£260.00
22947	KX-T 7601 USB module - white	£99.00
22948	KX-T 7601 USB module - black	£99.00
22959	KX-T 7603 Add-on 12 key module - white	£55.00
22960	KX-T 7603 Add-on 12 key module - black	£55.00
25416	KX-TDA 3105 Memory expansion card	£375.00
22940	KX-A 228 Battery cable	£60.00
DECT		
24415	155 DECT handset & charger KX-TCA 155	£99.00
30075	256 DECT handset & charger KX-TCA 256E	£159.00
25322	2 channel DECT repeater KXA 272	£150.00
24722	2 channel cell station KX-TDA 0141	£300.00
31969	KX-TCA 355 DECT handset and charger	£187.50

KX-TDA 15 configuration

Option slot	
Option slot	Line card slot
Option slot	Line card slot	4ch VoIP G/W card slot/SIP
Caller ID	4ch ISDN2	8 extension card slot

AC adaptor

USB port
for CTI / Prog

Serial RS232 port
for SMDR / Prog

4 hybrid extns*
(built-in)
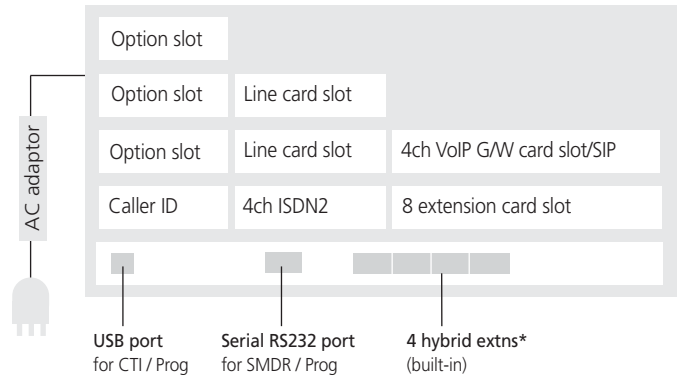
Summary of KX-TDA 15 main system features

- ARS/LCR
- Alarm call with message
- Automatic ISDN setting (BRI)
- Background music (BGM)
- Budget management
- Busy on busy
- Call barring
- Call logging
- Call park with indication
- Call pickup groups
- Calling line identification distribution (CLI)
- Class of service (COS)
- Data line security
- Delayed ringing
- Digital XDP
- Direct in lines (DIL)
- Direct inward dialling (DID)
- Direct inward system access (DISA)
- Echo cancellation
- Electronic lock
- Emergency call
- Existing APT / DPT compatibility
- Extension groups
- External BGM
- External sensor / relay control*

- Flexible numbering plan (5-digit)
- Floating extension
- Greeting message
- Host PBX access code
- Hunting groups
- Hurry-up transfer
- Intercept routing - busy/DND
- Intercept routing - no answer
- Intercept to trunk
- Manager functions
- MPR, card / CS software download
- Multiple language support
- Online diagnostics
- Operator functions
- PC console / PC phone
- PC programming
- Paging groups
- Quick setup
- Remote alarm notification
- Remote extension status control through DISA
- Remote extension lock
- Ring groups
- Special carrier access
- System memory expansion

KX-TDA 30

The Panasonic KX-TDA 30 is the perfect telephone system for small to medium sized businesses.

Initial Configuration

- 0 lines
- 12 extensions

(4 digital + 4 DXDP + 4 SLT)

Configuration without MEC (v2.0)

Extension total	28
Example:	
Single line telephone	4
Proprietary telephone	24

Configuration Guidelines

2nd power supply maybe required

Power Requirements

System comes with PSU for up to 24 units. If more than 24 units required a second PSU needs to be included. Each extension type has a power consumption as follows:

SLT - 1 PU (power unit)

KX-T 76 series handsets - 1 PU

S-bus extension - 2 PU

DECT cell station - 4 PU

Old KX-TD handsets - 4 PU

It offers a maximum of 12 trunks plus 4 IP channels and 52* extensions, and can be easily expanded to suit growing communication needs.

Key features

- Caller ID on analogue lines with CLI presentation to digital & SLT handsets
- 19" rack mountable (option)
- Multi-tenancy operation
- Advanced hotel features (v2.0)
- Digital XDP - doubles the number of digital extensions*
- DISA with messages
- VoIP enabled (trunks only)
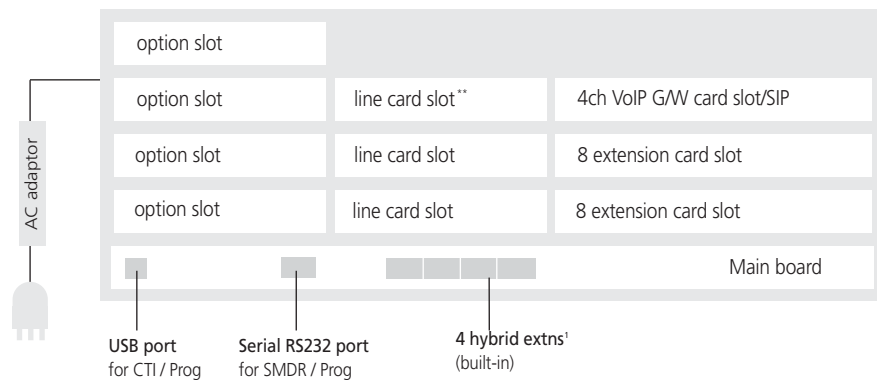- Free hotel application interface software

Voice mail options

- KX-TDA 3192 - internal voice mail card
- 2ch voice message card
- 52 mailboxes
- 60 minutes recording time
- Maximum 2 cards per system
- Fits into available option slot

Alternatively the KX-TVM 50 or KX-TVM 200 voice mail systems can be used with this system.

Internal voice mail option

KX-TDA 30 configuration

option slot		
option slot	line card slot**	4ch VoIP G/W card slot/SIP
option slot	line card slot	8 extension card slot
option slot	line card slot	8 extension card slot
		Main board

AC adaptor

USB port
for CTI / Prog

Serial RS232 port
for SMDR / Prog

4 hybrid extns¹
(built-in)

Code	Description	SSP ex VAT
24710	**KX-TDA 30 CCU & PSU** **(0 lines x 4 digital+4 DXDP+ 4 SLT)**	**£600.00**
Line cards		
25854	2 channel ISDN2 card (v2.0 only) KX-TDA 3283	£275.00
24716	4 channel ISDN2 card KX-TDA 3280	£475.00
25853	2 port analogue line card KX-TDA 3183	£125.00
24717	4 port analogue line card KX-TDA 3180	£170.00
24721	4 channel VoIP trunk card KX-TDA 3480	£675.00
31775	KX-3450x 4 ch SIP trunk card	£406.00
31776	KX-3451x 4 ch SIP DSP card	£203.00
Extension cards		
31774	KX-TDA 3470x 4 ch IP extension card	£581.10
24712	4 port digital ext. card KX-TDA 3171	£140.00
24713	4 port SLT ext. card KX-TDA 3173	£190.00
24714	8 port digital extension card kx-tda 3172	£260.00
24715	8 port SLT ext card KX-TDA 3174	£360.00
Options cards, PSUs & cables		
24725	Caller ID card for 8 SLT extensions KX-TDA 3168	£100.00
24718	4 port CLI card (CLI on analogue lines) KX-TDA 3193	£120.00
24719	Remote access card KX-TDA 3196	£200.00
24720	2 channel message card KX-TDA 3191	£290.00
24723	4 port door phone KX-TDA 3161	£150.00
24724	8 channel echo cancel card KX-TDA 3166	£360.00
25416	KX-TDA memory expansion module	£375.00
28172	Voice mail card KX-TDA 3192	£300.00
24711	Additional PSU KXA236X	£175.00
24726	KX-TDA 19" rack kit KXA 244X	£44.00
22940	KX-A 228 M-Type Battery cable	£60.00
28174	KX-TDA 3920 SD card v3 enhanced	£250.00
Keyphones		
30073	KX-T 7668 8 key, 1 line LCD speakerphone - white	£71.00
30074	KX-T 7668 8 key, 1 line LCD speakerphone - black	£71.00
22953	KX-T 7630 24 key, 3 line LCD speakerphone - white	£180.00
22954	KX-T 7630 24 key, 3 line LCD speakerphone - black	£180.00
22951	KX-T 7633 24 key, 3 line backlit LCD - white*	£200.00
22952	KX-T 7633 24 key, 3 line backlit LCD - black*	£200.00
22949	KX-T 7636 24 key, 6 line backlit LCD - white*	£260.00
22950	KX-T 7636 24 key, 6 line backlit LCD - black*	£260.00
22947	KX-T 7601 USB module - white	£99.00
22948	KX-T 7601 USB module - black	£99.00
22959	KX-T 7603 Add-on 12 key module - white	£55.00
22960	KX-T 7603 Add-on 12 key module - black	£55.00
DECT		
24415	155 DECT handset & charger KX-TCA 155	£99.00
30075	256 DECT handset & charger KX-TCA 256E	£159.00
25322	2 channel DECT repeater KXA 272	£150.00
24722	2 channel DECT cell station KX-TDA 0141	£300.00
31969	KX-TCA 355 DECT handset and charger	£187.50

*Subject to availability from the network
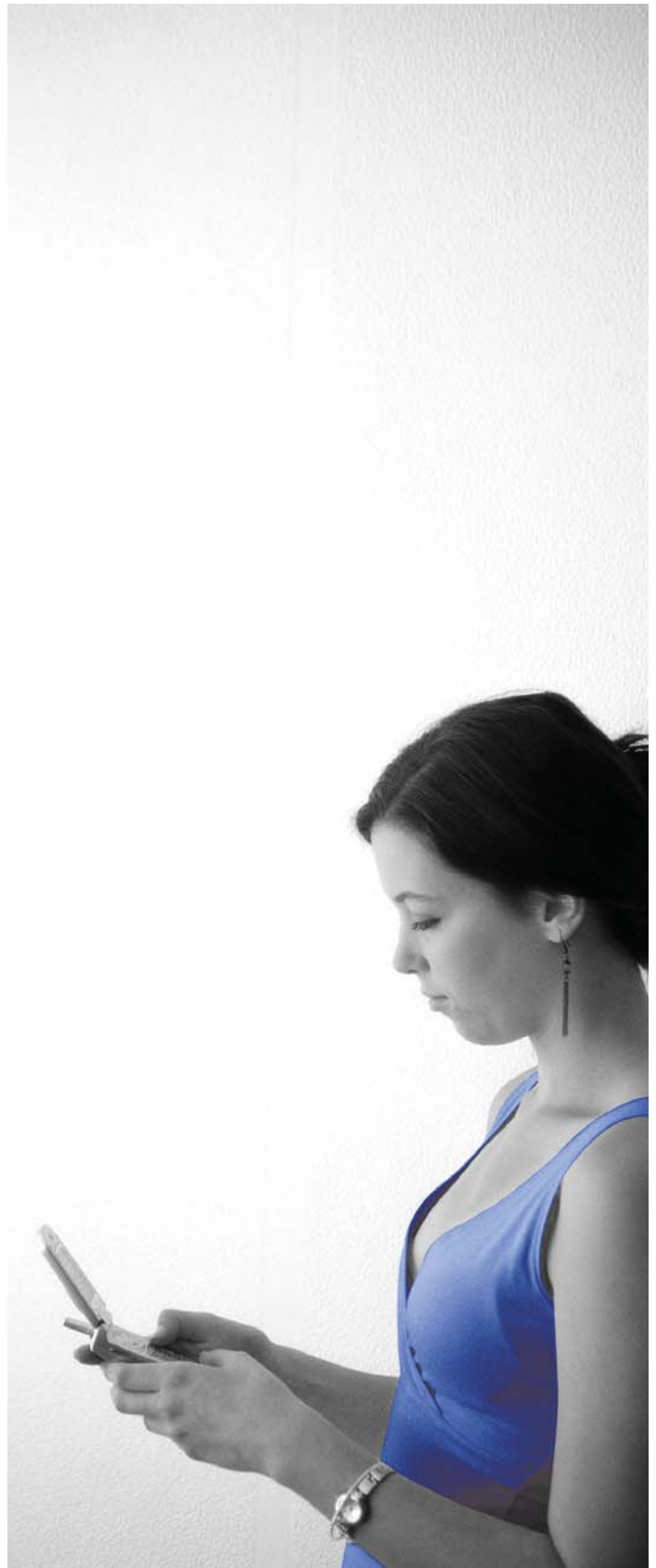
KX-TDA 100

An up-to-date business communications system that works seamlessly with IT and combines voice and data in one low cost, next-generation, hybrid IP-PBX solution.

Initial Configuration

- 0 lines
- 0 extensions

Configuration without MEC (v2.0)

Extensions	64
Trunk ports	64

* Requires Memory Expansion Card (MEC) using DXDP for maximum configuration - call sales for details

Configuration guidelines

The system has 5 slots available for expansion. These slots can be populated with either line cards, extension cards or IP cards. A maximum 4 extension cards or 4 line cards can be added, to increase the capacity. The system can accommodate up to 2 DECT interface cards.

Each analogue line card and extension card requires an MDF cable. There is also an option slot for adding features such as doorphone, outgoing messages and multi-party audio conferencing.

KX-TDA is a sophisticated combination of PBX reliability and IP technology offering efficient and flexible communication.

It can be configured to meet your present needs and expand as your applications grow or change, making it a cost effective future-proof investment.

Extra system options available:

- Voicemail / auto attendant
- Call management software
- Cordless telephony (DECT)
- Integrated headsets
- Computer Telephony Integration (CTI)
- Remote branches & Home Worker Solution
- Email integration

5 slots system configuration
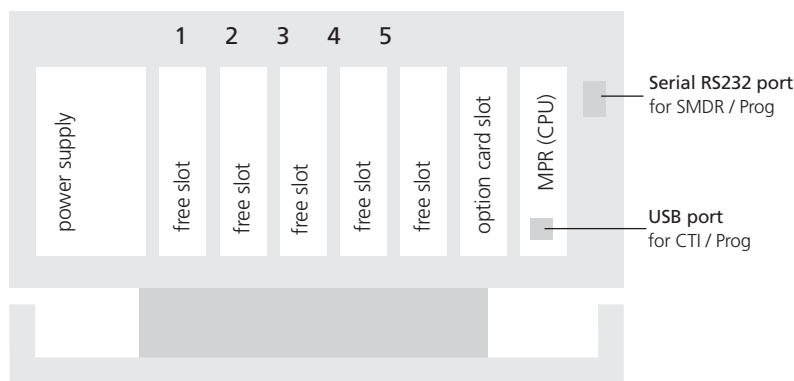
Code	Description	SSP ex VAT
22901	**KX-TDA 100 CCU (KX-TDA 100) inc PSU**	**£1155.00**
Line cards		
25893	4 channel VoIP trunk card KX-TDA 0484	£675.00
26835	16 channel VoIP trunk card KX-TDA 0490	£3000.00
22919	ISDN30 card KX-TDA 0290C	£1030.00
22920	E1 card KX-TDA 0188C	£1030.00
22921	8 channel ISDN2 card KX-TDA 0284C	£630.00
22922	16 channel ISDN2 card KX-TDA 0288C	£950.00
22923	8 port analogue line card KX-TDA 0180X	£625.00
22924	16 port analogue line card KX-TDA 0181X	£1100.00
22925	8 circuit E&M card KX-TDA 0184X	£630.00

Code	Description	SSP ex VAT
22901	**KX-TDA 100 CCU (KX-TDA 100) inc PSU**	**£1155.00**
Extension cards		
26830	16 channel VoIP extension card (v2.0 only) KX-TDA 0470	£535.00
22941	8 digital hybrid extension card (8 digital & 8 analogue) KX-TDA 0170X	£425.00
22942	8 digital extension card KX-TDA 0171X	£325.00
22943	16 digital extension card KX-TDA 0172X	£550.00
22944	8 SLT extension card KX-TDA 0173X	£400.00
22946	16 SLT extn card with message waiting KX-TDA0 175X	£750.00
Options cards, PSUs & cables		
26828	8 extension Caller ID to SLT KX-TDA 0168 (fits to KX-TDA 0173)	£220.00
22926	Caller ID card for 8 analogue lines KX-TDA 0193X	£193.00
22930	Option card** KX-TDA 0190X	£168.00
22931	4 channel message card KX-TDA 0191X	£445.00
22932	4 doorphone / door opener card KX-TDA 0161X	£150.00
12989	Doorphone KX-T 30865E	£25.00
22933	Remote maintenance card KX-TDA 0196X	£200.00
22934	CTI link card / LAN card KX-TDA 0410X	£325.00
22945	4 port input / output card KX-TDA 0164	£99.00
22935	16 circuit echo canceller card KX-TDA 0166X	£600.00
22940	M-type battery cable KX-A 228	£60.00
23364	MDF box (pre-wired for 1308 installs)	£275.00
23739	MDF cable - plug to open (cat 5)	£18.95
23365	MDF cable - male to female	£24.95
23081	KX-TDA 19" rack mounting kit KXA 243	£45.00
26833	KXNT 136 power supply unit	£29.00
25415	KX-TDA 0105 Memory expansion card	£550.00
26827	KX-TDA 0920 Enhanced SD card for GSM integration / centralised voicemail	£500.00

Code	Description	SSP ex VAT
Keyphones		
30073	KX-T 7668 8 key, 1 line LCD speakerphone - white	£71.00
30074	KX-T 7668 8 key, 1 line LCD speakerphone - black	£71.00
22953	KX-T 7630 24 key, 3 line LCD speakerphone - white	£180.00
22954	KX-T 7630 24 key, 3 line LCD speakerphone - black	£180.00
22951	KX-T 7633 24 key, 3 line backlit LCD - white*	£200.00
22952	KX-T 7633 24 key, 3 line backlit LCD - black*	£200.00
22949	KX-T 7636 24 key, 6 line backlit LCD - white*	£260.00
22950	KX-T 7636 24 key, 6 line backlit LCD - black*	£260.00
26831	KXNT 136 IP handset 24 key 6 line backlit LCD - white	£220.00
26832	KXNT 136 IP handset 24 key 6 line backlit LCD - black	£220.00
30028	KXNT 265 8 key, 1 line IP handset - white	£150.00
30029	KXNT 265 8 key, 1 line IP handset - black	£150.00
30517	NCS 8100 IP softphone (6pk)	£594.00
22957	KX-T 7640 60 BLF DSS console - white	£190.00
22958	KX-T 7640 60 BLF DSS console - black	£190.00
22959	KX-T 7603 Add-on 12 key module - white	£55.00
22960	KX-T 7603 Add-on 12 key module - black	£55.00
DECT		
24415	155 DECT handset & charger KX-TCA 155	£99.00
24706	256 DECT handset & charger KX-TCA 256E	£159.00
25322	2 channel DECT repeater KXA 272	£150.00
24722	2 channel DECT cell station KX-TDA 0141	£300.00
22928	4 channel DECT cell station KX-TDA 0142	£300.00
24414	4 channel cell station interface card KX-TDA 0143	£449.00
22929	8 channel cell station interface card KX-TDA 0144	£799.00
31969	KX-TCA 355 DECT handset and charger	£187.50

* Optional USB port **Required for KX-TDA 0191, KX-TDA 0161, KX-TDA 0164, KX-TDA 0166

Summary of KX-TDA 100, 200 & 600 main system features

- ARS/LCR
- Alarm call with message
- Automatic ISDN setting (BRI)
- Background music (BGM)
- Budget management
- Busy on busy
- Call barring
- Call logging
- Call park with indication
- Call pickup groups
- Calling line identification

- distribution (CLI)
- Class of service (COS)
- Data line security
- Delayed ringing
- Digital XDP
- Direct in lines (DIL)
- Direct inward dialling (DID)
- Direct inward system access (DISA)
- Echo cancellation
- Electronic lock

- Emergency call
- Existing APT / DPT compatibility
- Extension groups
- External BGM
- External sensor / relay control*
- Flexible numbering plan (5-digit)
- Floating extension
- Greeting message
- Host PBX access code
- Hunting groups

- Hurry-up transfer
- Intercept routing - busy/DND
- Intercept routing - no answer
- Intercept to trunk
- Manager functions
- MPR, card / CS software download
- Multiple language support

KX-TDA 200

An up-to-date business communications system that works seamlessly with IT and combines voice and data in one low cost, next-generation, hybrid IP-PBX solution.

Initial Configuration

- 0 lines
- 0 extensions

Configuration without MEC (v2.0)

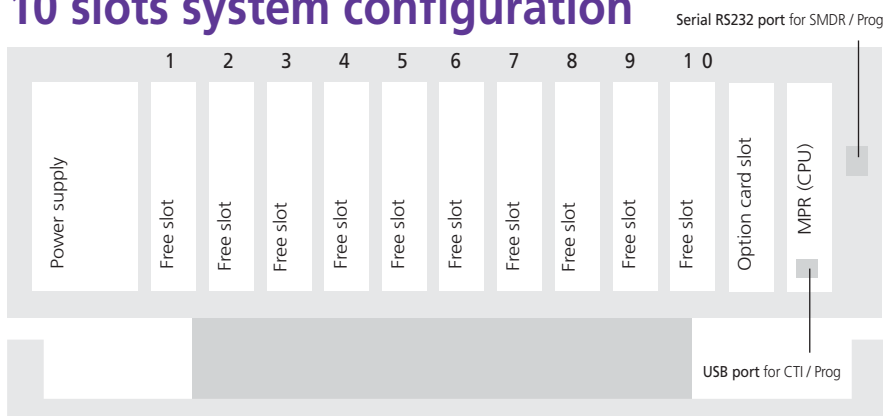|	
Extensions	128
Trunk ports	128

Configuration guidelines

The system has 10 slots available for expansion. As with the KX-TDA 100 it can be populated with either line, extension or IP cards.

A maximum of 8 extension cards or 8 line cards can be added to increase capacity. The system can accommodate up to 4 DECT interface cards. Each analogue line card and extension card requires an MDF cable. There is also an option slot for adding features such as doorphone, outgoing messages and multi-party conferencing.

Extra system options available:

- Voice mail / auto attendant
- Call management software
- Cordless telephony (DECT)
- Integrated headsets
- Computer Telephony Integration (CTI)
- Remote branches & Home Worker Solution
- Email integration

10 slots system configuration

Serial RS232 port for SMDR / Prog

	1	2	3	4	5	6	7	8	9	1 0		
Power supply	Free slot	Free slot	Free slot	Free slot	Free slot	Free slot	Free slot	Free slot	Free slot	Free slot	Option card slot	MPR (CPU)

USB port for CTI / Prog

Code	Description	SSP ex VAT
22902	**KX-TDA 200 CCU (KX-TDA 200) inc PSU**	**£1400.00**
Line cards		
25893	4 channel VoIP trunk card KX-TDA 0484	£675.00
26835	16 channel VoIP trunk card KX-TDA 0490	£3000.00
22919	ISDN30 card KX-TDA 0290C	£1030.00
22920	E1 card KX-TDA 0188C	£1030.00
22921	8 channel ISDN2 card KX-TDA 0284C	£630.00
22922	16 channel ISDN2 card KX-TDA 0288C	£950.00
22923	8 port analogue line card KX-TDA 0180X	£625.00
22924	16 port analogue line card KX-TDA 0181X	£1100.00
22925	8 circuit E&M card KX-TDA 0184X	£630.00
Extension cards		
26830	16 channel VoIP extension card (v2.0 only) KX-TDA 0470	£535.00
22941	8 digital hybrid extension card (8 digital & 8 analogue) KX-TDA 0170X	£425.00
22942	8 digital extension card KX-TDA 0171X	£325.00
22943	16 digital extension card KX-TDA 0172X	£550.00
22944	8 SLT extension card KX-TDA 0173X	£400.00
22946	16 SLT extension card with message waiting KX-TDA0175X	£750.00
Options cards, PSUs & cables		
26828	8 extension Caller ID to SLT KX-TDA 0168 (fits to KX-TDA 0173)	£220.00
22926	Caller ID card for 8 analogue lines KX-TDA 0193X	£199.00
22930	Option card** KX-TDA 0190X	£168.00
22931	4 channel message card KX-TDA 0191X	£445.00
22932	4 doorphone / door opener card KX-TDA 0161X	£150.00
12989	Doorphone KX-T 30865E	£25.00

Code	Description	SSP ex VAT
22933	Remote maintenance card KX-TDA 0196X	£200.00
22934	CTI link card / LAN card KX-TDA 0410X	£325.00
22945	4 port input / output card KX-TDA 0164	£99.00
22935	16 circuit echo canceller card KX-TDA 0166X	£600.00
22939	L-type battery cable KX-A 229	£100.00
23364	MDF box (pre-wired for 1308 installs)	£275.00
23739	MDF cable - plug to open (cat 5)	£18.95
23365	MDF cable - male to female	£24.95
23080	KX-TDA 19" rack mounting kit KXA 242X	£45.00
26833	KXNT 136 power supply unit	£29.00
25415	KX-TDA 0105 memory expansion	£550.00
26827	KX-TDA 0920 enhanced SD card	£500.00
Keyphones		
30073	KX-T 7668 8 key, 1 line LCD speakerphone - white	£71.00
30074	KX-T 7668 8 key, 1 line LCD speakerphone - black	£71.00
22953	KX-T 7630 24 key, 3 line LCD speakerphone - white	£180.00
22954	KX-T 7630 24 key, 3 line LCD speakerphone - black	£180.00
22951	KX-T 7633 24 key, 3 line backlit LCD - white*	£200.00
22952	KX-T 7633 24 key, 3 line backlit LCD - black*	£200.00
22949	KX-T 7636 24 key, 6 line backlit LCD - white*	£260.00
22950	KX-T 7636 24 key, 6 line backlit LCD - black*	£260.00
26831	KXNT 136 IP handset 24 key 6 line backlit LCD - white	£220.00
26832	KXNT 136 IP handset 24 key 6 line backlit LCD - black	£220.00
30028	KXNT 265 IP handset 8 key 1 line display - white	£150.00

Code	Description	SSP ex VAT
30029	KXNT 265 IP handset 8 key 1 line display - black	£150.00
30517	NCS8100 IP softphone (6pk)	£594.00
22957	KX-T 7640 60 BLF DSS console - white	£190.00
22958	KX-T 7640 60 BLF DSS console - black	£190.00
22959	KX-T 7603 Add-on 12 key module - white	£55.00
22960	KX-T 7603 Add-on 12 key module - black	£55.00
DECT		
24415	155 DECT handset & charger KX-TCA 155	£99.00
30075	256 DECT handset & charger KX-TCA 256E	£159.00
25322	2 channel DECT repeater KXA 272	£150.00
24722	2 channel DECT cell station KX-TDA 0141	£300.00
22928	4 channel DECT cell station KX-TDA 0142	£300.00
24414	4 channel cell station interface card KX-TDA 0143	£449.00
22929	8 channel cell station interface card KX-TDA 0144	£799.00
31969	KX-TCA 355 DECT handset and charger	£187.50

* Optional USB port **Required for KX-TDA 0191, KX-TDA 0161, KX-TDA 0164, KX-TDA 0166

KX-TDA 600

This hybrid IP-PBX offers the ultimate solution for your customers office by synthesising voice and data to give a low cost, intelligent communications environment.

Initial Configuration

- 0 lines
- 0 extensions

Configuration Guidelines

The system has a basic configuration of 1 cabinet = 160 extensions & 160 trunks

Options

Can support up to three 620 expansion shelves

System configuration

KX-TDA 600 main CCU:
10 slots + 1 Busmaster slot

KX-TDA 620 expansion shelf:
11 slots + 1 Busmaster slot

(no dedicated option slot)

Maximum configuration

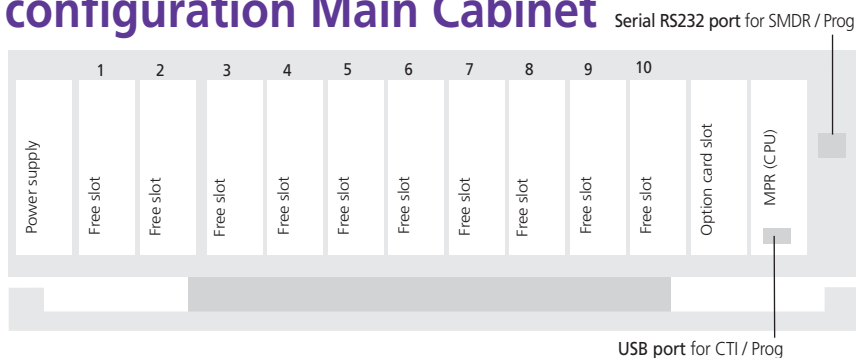|	
Lines (4 cabinets)	640
Extensions (4 cabinets)	960*
DECT Cell stations per cabinet	32
Interface cards per cabinet	4

Extra system options available:

- Voice mail
- Call Management Software
- Cordless Telephony (DECT)
- Integrated Headsets
- Computer Telephony Integration (CTI)
- Remote Branches
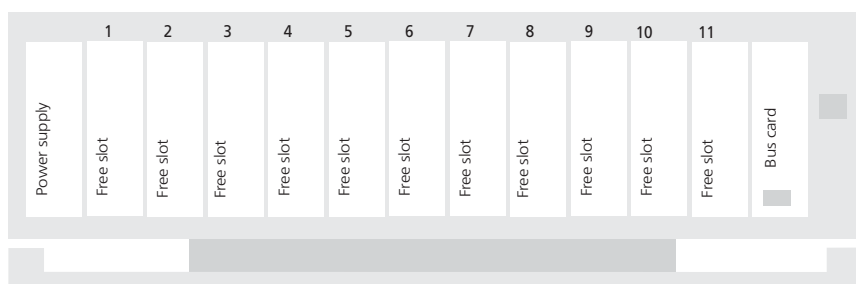- Home Worker Solution

As technology changes so does the way businesses communicate with their customers. The KX-TDA 600, with a capacity of up to 960 extensions provides the ideal solution to handle all your customers system requirements whatever their size.

Similar to the KX-TDA 100/200, this system utilises many of the existing cards allowing for an easy migration path.

KX-TDA 600 10 slots system configuration Main Cabinet

Serial RS232 port for SMDR / Prog

Power supply	1 Free slot	2 Free slot	3 Free slot	4 Free slot	5 Free slot	6 Free slot	7 Free slot	8 Free slot	9 Free slot	10 Free slot	Option card slot	MPR (CPU)

USB port for CTI / Prog

KX-TDA 620 11 slots expansion shelf

Power supply	1 Free slot	2 Free slot	3 Free slot	4 Free slot	5 Free slot	6 Free slot	7 Free slot	8 Free slot	9 Free slot	10 Free slot	11 Free slot	Bus card

Code	Description	SSP ex VAT
28429	KX-TDA 600 CCU (main unit) inc PSU	£2650.00
28431	KX-TDA 620 expansion shelf	£1800.00
28435	Shelf connection card for main unit (BUS M) KX-TDA 6110	£450.00
28437	Expansion card for shelf 2 & 3 (BUS ME) KX-TDA 6111	£360.00

Line cards

Code	Description	SSP ex VAT
25893	4 channel VoIP trunk card KX-TDA 0484	£675.00
26835	16 channel VoIP trunk card KX-TDA 0490	£3000.00
22919	ISDN30 card KX-TDA 0290C	£1030.00
22920	E1 card KX-TDA 0188C	£1030.00
22921	8 channel ISDN2 card KX-TDA 0284C	£630.00
22922	16 channel ISDN2 card KX-TDA 0288C	£950.00
28476	16 port analogue line card KX-TDA 6181	£1100.00
22925	8 circuit E&M card KX-TDA 0184X	£630.00

Extension cards

Code	Description	SSP ex VAT
26830	16 channel VoIP extension card (v2.0 only) KX-TDA 0470	£535.00
22941	8 digital hybrid extension card KX-TDA 0170X (8 digital & 8 analogue)	£425.00
22942	8 digital extension card KX-TDA 0171X	£325.00
22943	16 digital extension card KX-TDA 0172X	£550.00
22944	8 SLT extension card KX-TDA 0173X	£400.00
28475	16 SLT extension card with message waiting KX-TDA 6175	£750.00

Options cards, PSUs & cables

Code	Description	SSP ex VAT
26828	8 extension Caller ID to SLT KX-TDA 0168 (fits to KX-TDA 0173)	£220.00
22926	Caller ID card for 8 analogue lines** KX-TDA 0193X	£199.00
22930	Option card*** KX-TDA 0190X	£168.00
22931	4 channel message card KX-TDA 0191X	£445.00
22932	4 doorphone / door opener card KX-TDA 0161X	£150.00
12989	Doorphone KX-T 30865E	£25.00
22933	Remote maintenance card KX-TDA 0196X	£200.00
22934	CTI link card / LAN card KX-TDA 0410X	£325.00
22945	4 port input / output card KX-TDA 0164	£99.00
28441	16 circuit echo canceller card KX-TDA 6166	£630.00
22939	L-type battery cable KX-A 229	£100.00

Code	Description	SSP ex VAT
23364	MDF box (pre-wired for 1308 installs)	£275.00
23739	MDF cable - plug to open (cat 5)	£18.95
23365	MDF cable - male to female	£24.95
30955	KXT-DA 6920 enhanced SD card	£1000.00
28439	KXT-DA 6105 expansion card	£800.00
28477	Mounting kit (4 x wall plates, 4 x feet & screws)	£260.00
23080	KX-TDA 19" rack mounting kit KXA 242X	£45.00
26833	KXNT 136 power supply unit	£29.00

Keyphones

Code	Description	SSP ex VAT
30073	KX-T 7668 8 key, 1 line LCD speakerphone - white	£71.00
30074	KX-T 7668 8 key, 1 line LCD speakerphone - black	£71.00
22953	KX-T 7630 24 key, 3 line LCD speakerphone - white	£180.00
22954	KX-T 7630 24 key, 3 line LCD speakerphone - black	£180.00
22951	KX-T 7633 24 key, 3 line backlit LCD - white*	£200.00
22952	KX-T 7633 24 key, 3 line backlit LCD - black*	£200.00
22949	KX-T 7636 24 key, 6 line backlit LCD - white*	£260.00
22950	KX-T 7636 24 key, 6 line backlit LCD - black*	£260.00
26831	KXNT 136 IP handset 24 key 6 line backlit LCD - white	£220.00
26832	KXNT 136 IP handset 24 key 6 line backlit LCD - black	£220.00
30028	KX-NT 265 IP handset 8 key, 1 line - white	£150.00
30029	KX-NT 265 IP handset 8 key, 1 line - black	£150.00
30517	NCS8100 IP softphone (6 pk)	£594.00
22957	KX-T 7640 60 BLF DSS console - white	£190.00
22958	KX-T 7640 60 BLF DSS console - black	£190.00
22959	KX-T 7603 Add-on 12 key module - white	£55.00
22960	KX-T 7603 Add-on 12 key module - black	£55.00

DECT

Code	Description	SSP ex VAT
24415	155 DECT handset & charger KX-TCA 155	£99.00
30075	256 DECT handset & charger KX-TCA 256E	£159.00
25322	2 channel DECT repeater KXA 272	£150.00
24722	2 channel DECT cell station KX-TDA 0141	£300.00
22928	4 channel DECT cell station KX-TDA 0142	£300.00
24414	4 channel cell station interface card KX-TDA 0143	£449.00
22929	8 cell station interface card KX-TDA 0144	£799.00
31969	KX-TCA 355 DECT handset and charger	£187.50

* Optional USB port ** Fits to KXTDA 6181
*** Required for KX-TDA 0191, KX-TDA 0161, KX-TDA 0164, KX-TDA 0166

* Optional USB port ** Fits to KXTDA 6181 *** Required for KX-TDA 0191, KX-TDA 0161, KX-TDA 0164, KX-TDA 0166

KX-TDA 600 system capacity			Basic system	2 shelf system	3 shelf system	4 shelf system (max)
Extensions	Extension port	without DXDP	160	320	480	640
		with DXDP	240	480	720	960
	Single Line Telephone (SLT)		160	320	480	640
	Digital Proprietary Telephone (DPT) type 1**	without DXDP	80	160	240	320
		with DXDP	160	320	480	640
	Digital Proprietary Telephone (DPT) type 2 ***		128	256	384	512
	Analogue Proprietary Telephone (APT)		80	160	240	320
	Direct Station Select (DSS) console		16	32	48	64
	Voice Processing System (VPS)		8	8	8	8
Trunks	Trunk port		160	320	480	640
	ISDN trunk		150	300	450	600
	Analogue trunk		160	320	480	640
	IP Gateway		160	320	480	640
Wireless	Portable Station (PS)	without MEC	64	128	192	256
		with MEC	128	256	384	512
	Cell Station (CS)		32	64	96	128
Doorphone port			16	32	48	64
PC Console			8	8	8	8
PC Phone			128	128	128	128

KX-TDE 100

The KX-TDE IP PBX 100 is an advanced communications platform that merges PBX functions and reliability with IP technology. The system also supports SIP connectivity for desktops and networks.

System Total		256
Built-in	IP Proprietary Telephone (IP-PT)	**64**
	SIP (RFC 3261) IP Telephone (Basic)	**128**
	Total	**128**
Extension **Additional**	IP Proprietary Telephone (IP-PT)	**96**
	Single Line (a/b) Telephone (SLT)	**96**
	Digital Proprietary Telephone (DPT) - DXDP	**128**
	Analogue Proprietary Telephone (APT)	**64**
	Direct Station Select (DSS) Console	**8**
	Voice Processing System (VPS)	**2**
	Total	**128**
System Total		128
Trunk **Optional**	VoIP Channel Card - DSP16	**16ch**
	VoIP Channel Card - DSP64	**32ch**
	Total	**32**
Additional	Analogue Trunk	**96**
	ISDN Trunk - BRI	**96 (48BRI)**
	ISDN Trunk - PRI	**120 (4PRI)**
	IP Trunk	**64**
	Total	**120**
Portable Station (PS)		128
Cell Station (CS)		32
Extension Total		**256**

The system supports a range of IP telephones, as well as standard digital and analogue extensions. Couple this with a Business Application environment, and you have a system ready to take your business communication needs into the 21st Century, at your own pace.

Key benefits

- SIP telephony supporting both trunks & IP extensions
- Leveraging open standard communications
- Desktop, network & application integration
- Business productivity with mobility solutions

- Easy migration (upgrade from TDA to TDE)
- Reduced total cost of ownership (installation & network call costs reduced)
- Centralised management & upgrades
- Add Integral voicemail

Extra system options available:

- Simple Voice Message card
  - (Built-in Message Card (2ch, 120mins, 125 messages)
  - Call Centre Queuing
- Call management software
- Cordless telephony (DECT)
- Integrated headsets
- Email integration

5 slots system configuration
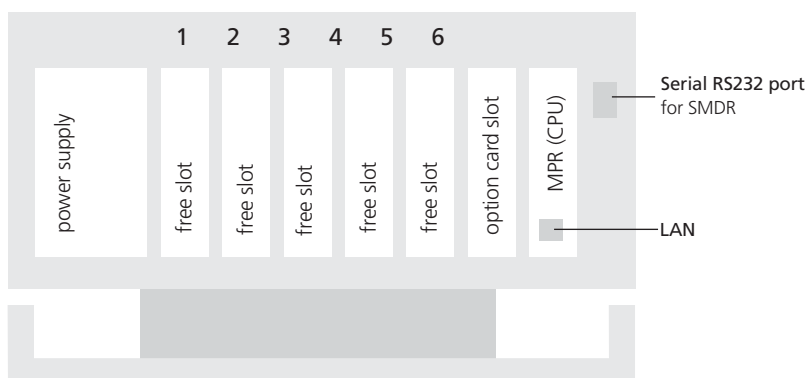
Code	Description	SSP ex VAT
32164	**KX-TDE 100**	**£1594.00**
22937	**KX-TDE 0104X power supply unit**	**£355.00**
Line cards		
25893	4 channel VoIP trunk card KX-TDA 0484	£675.00
26835	16 channel VoIP trunk card KX-TDA 0490	£3000.00
22919	ISDN30 card KX-TDA 0290C	£1030.00
22920	E1 card KX-TDA 0188C	£1250.00
22921	8 channel ISDN2 card KX-TDA 0284C	£630.00
22922	16 channel ISDN2 card KX-TDA 0288C	£950.00
22923	8 port analogue line card KX-TDA 0180X	£625.00
22925	8 circuit E&M card KX-TDA 0184X	£630.00

Code	Description	SSP ex VAT
26830	**16 channel VoIP extension card (v2.0 only) KX-TDA 0470**	**£535.00**
22941	**8 digital hybrid extension card (8 digital & 8 analogue) KX-TDA 0170X**	**£425.00**
22942	**8 digital extension card KX-TDA 0171X**	**£325.00**
22943	**16 digital extension card KX-TDA 0172X**	**£550.00**
22944	**8 SLT extension card KX-TDA 0173X**	**£400.00**
22946	**16 SLT extn card with message waiting KX-TDA0 175X**	**£750.00**
Options cards, PSUs & cables		
26828	8 extension Caller ID to SLT KX-TDA 0168 (fits to KX-TDA 0173)	£220.00
22926	Caller ID card for 8 analogue lines KX-TDA 0193X	£199.00
22930	Option card** KX-TDA 0190X	£168.00
22931	4 channel message card KX-TDA 0191X	£445.00
22932	4 doorphone / door opener card KX-TDA 0161X	£150.00
12989	Doorphone KX-T 30865E	£25.00
22934	CTI link card / LAN card KX-TDA 0410X	£325.00
22945	4 port input / output card KX-TDA 0164	£99.00
22935	16 circuit echo canceller card KX-TDA 0166X	£600.00
22940	M-type battery cable KX-A 228	£60.00
23364	MDF box (pre-wired for 1308 installs)	£275.00
23739	MDF cable - plug to open (cat 5)	£18.95
23365	MDF cable - male to female	£24.95
23081	KX-TDA 19" rack mounting kit KXA 243	£45.00
26833	KXNT 136 power supply unit	£29.00
26827	KX-TDA 0920 Enhanced SD card for GSM integration / centralised voicemail	£500.00
32168	KX-NCS4208XJ 8IP Softphone/PT licence	£1025.00
32169	KX-NCS4508XJ 8IP Softphone/PT ext licence	£225.00
32170	KX-NCS4104XJ 4IP trunk licence	£180.00
32171	KX-NCS4716XJ 16IP SIP IP ext licence	£545.00
32172	KX-TDE0101UK IP Convergence MPR card	£1300.00
32174	KX-TDE011X 16 channel DSP card	£405.00
32175	KX-TDE0111X 64 channel DSP card	£1200.00

Code	Description	SSP ex VAT
32177	KX-NCS4910XJ enhanced software licence	£745.00
32184	KX-NT303 IP 12 key add-on module (white)	£55.00
32185	KX-NT303 IP 12 key add-on module (black)	£55.00
32186	KX-NT305 IP 60 key add-on module (white)	£130.00
32187	KX-NT305 IP 60 key add-on module (black)	£130.00
32188	KX-NT307CE Bluetooth module	£160.00
32189	KX-A239UK IP power supply	£29.00
32176	Encryption SD Card	£375.00
Keyphones		
30073	KX-T 7668 8 key, 1 line LCD speakerphone - white	£71.00
30074	KX-T 7668 8 key, 1 line LCD speakerphone - black	£71.00
22953	KX-T 7630 24 key, 3 line LCD speakerphone - white	£180.00
22954	KX-T 7630 24 key, 3 line LCD speakerphone - black	£180.00
22951	KX-T 7633 24 key, 3 line backlit LCD - white*	£200.00
22952	KX-T 7633 24 key, 3 line backlit LCD - black*	£200.00
22949	KX-T 7636 24 key, 6 line backlit LCD - white*	£260.00
22950	KX-T 7636 24 key, 6 line backlit LCD - black*	£260.00
30028	KXNT 265 8 key, 1 line IP handset - white	£150.00
30029	KXNT 265 8 key, 1 line IP handset - black	£150.00
30517	NCS 8100 IP softphone (6pk)	£594.00
22957	KX-T 7640 60 BLF DSS console - white	£190.00
22958	KX-T 7640 60 BLF DSS console - black	£190.00
22959	KX-T 7603 Add-on 12 key module - white	£55.00
22960	KX-T 7603 Add-on 12 key module - black	£55.00
DECT		
31969	355 DECT handset & charger	£187.50
24415	155 DECT handset & charger KX-TCA 155	£99.00
24706	256 DECT handset & charger KX-TCA 256E	£159.00
25322	2 channel DECT repeater KXA 272	£150.00
24722	2 channel DECT cell station KX-TDA 0141	£300.00
22928	4 channel DECT cell station KX-TDA 0142	£300.00
24414	4 channel cell station interface card KX-TDA 0143	£449.00
22929	8 channel cell station interface card KX-TDA 0144	£799.00

Summary of KX-TDE 100 & 200 main system features

- ARS/LCR
- Automatic ISDN setting (BRI)
- Background music (BGM)
- Bluetooth
- Budget management
- Built-in maintenance card
- Built-in voicemail
- Busy on busy
- CTI
- Call barring & logging
- Call park with indication
- Call pickup groups

- Calling line identification distribution (CLI)
- Class of service (COS)
- Data line security
- Delayed ringing
- Direct in lines (DIL)
- Direct inward dialling (DID)
- Direct inward system access (DISA)
- Door phone/door opener
- Echo cancellation
- Electronic lock
- Emergency call

- Existing APT/DPT compatibility
- Extension groups
- External BGM
- External sensor/relay control*
- Floating extension
- Greeting message
- Host PBX access code
- Hunting groups
- Hurry-up transfer
- Integral voicemail
- Intercept routing - busy/DND
- Intercept routing - no answer

- Manager functions
- Paging groups
- Quick setup
- Remote extension status control through DISA
- Remote alarm notification
- Remote extension lock
- Ring groups
- SIP extension
- SIP trunk
- Special carrier access
- Timed reminder
- Trunk groups

KX-TDE 200

The KX-TDE IP PBX 200 is a hybrid system supporting up to 128 lines and 256 extensions, making it big enough to grow with a small company.

Extension			
System Total			**256**
Built-in	IP Proprietary Telephone (IP-PT)		**64**
	SIP (RFC 3261) IP Telephone (Basic)		**128**
	Total		**128**
Additional	IP Proprietary Telephone (IP-PT)		**128**
	Single Line (a/b) Telephone (SLT)		**128**
	Digital Proprietary Telephone (DPT) - DXDP		**256**
	Analogue Proprietary Telephone (APT)		**64**
	Direct Station Select (DSS) Console		**8**
	Voice Processing System (VPS)		**2**
	Total		**128**

Trunk			
System Total			**128**
Optional	VoIP Channel Card - DSP16		**16ch**
	VoIP Channel Card - DSP64		**32ch**
	Total		**32**
Additional	Analogue Trunk		**96**
	ISDN Trunk - BRI		**96 (48BRI)**
	ISDN Trunk - PRI		**120 (4PRI)**
	IP Trunk		**64**
	Total		**120**
Portable Station (PS)			**128**
Cell Station (CS)			**32**
Extension Total			**256**

The KX-TDE 200 provides advanced telephone messaging solutions, efficient and flexible communications, Wireless Mobility, IP Networking capability, Voice-Over IP (VoIP), and seamless integration with your PC - making it an ideal multi-function communications solution.
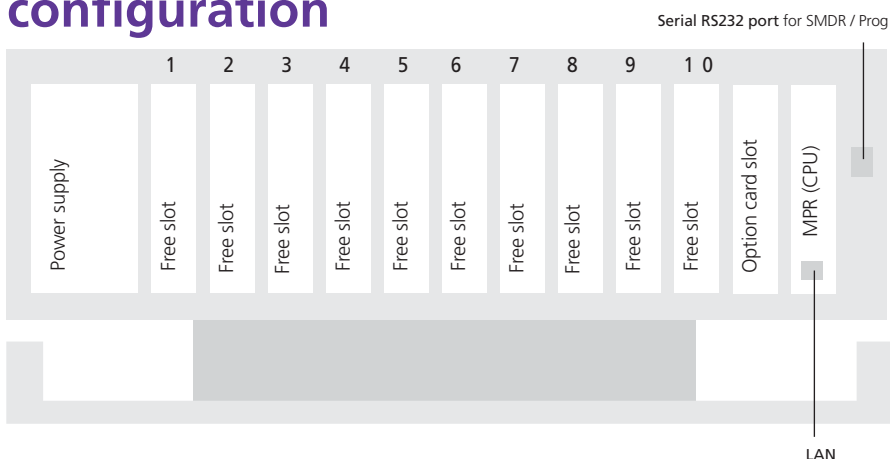
Key benefits

- SIP telephony supporting both trunks & IP extensions
- Leveraging open standard communications
- Desktop, network & application integration
- Business productivity with mobility solutions

- Easy migration (upgrade from TDA to TDE)
- Reduced total cost of ownership (installation & network call costs reduced)
- Centralised management & upgrades
- Add Integral voicemail

Extra system options available:

- Simple Voice Message card (Built-in Message Card (2ch, 120mins, 125 messages) Call Centre Queuing
- Call management software
- Cordless telephony (DECT)
- Integrated headsets
- Email integration

10 slots system configuration

Serial RS232 port for SMDR / Prog

	1	2	3	4	5	6	7	8	9	10		
Power supply	Free slot	Free slot	Free slot	Free slot	Free slot	Free slot	Free slot	Free slot	Free slot	Free slot	Option card slot	MPR (CPU)

LAN

Code	Description	SSP ex VAT
32166	KX-TDE 200	£2105.00
22936	KX-TDA 0103X power supply unit	£650.00
Other codes and prices as per KX-TDE 100		

| KX-NT 366 | KX-NT 346 | KX-NT 343 | KX-NT 321 |

		KX-NT 366	**KX-NT 346**	**KX-NT 343**	**KX-NT 321**
Display	Alphanumeric Display (lines & characters)	6 x 24	6 x 24	3 x 24	1 x 16
	Tilt-Angle Adjustment	4 Steps	4 Steps	4 Steps	4 Steps
	Display-Contrast Adjustment	4 Levels	4 Levels	4 Levels	3 Levels
	Back-lit LCD	Yes	Yes	Yes	No
	Display Feature Access Keys	4	4	4	n/a
Keys / functions	Programmable Keys & Dual-Colour LED's	48 (12 x 4)*	24 (36)*	24 (36)*	8
	Navigation Key	Yes	Yes	Yes	Yes
	Ringer/Message Waiting Lamp	Yes	Yes	Yes	Yes
Audio	Speakerphone (Full Duplex)	12 Levels	12 Levels	12 Levels	12 Levels
	Handset Volume Control	4 Levels	4 Levels	4 Levels	4 Levels
	Ringer Volume Control	4 Levels	4 Levels	4 Levels	4 Levels
	Off-Hook Monitor	Yes	Yes	Yes	n/a
	Whisper OHCA	Yes	Yes	Yes	Yes
Connection	Ethernet Port (POE)	Yes	Yes	Yes	Yes
	Second Ethernet Port	Yes	Yes	Yes	Yes
	Optional Headset Compatible	Yes	Yes	Yes	Yes
Others	Station Speed Dial Numbers	10	10	10	10
	Wall Mount	Yes	Yes	Yes	Yes

* 12 Self labelling keys x 4 pages (total 48)   ** 36 programmable keys are available when the optional 12 programmable key add-on modulke (KX-T7603) is selected

KX-TCA355

● IP54 compliant
● Headset Support
● Vibration Alert
● Large Back-lit Blue LCD
● 12 Programmable Menu Keys

Code	Description	SSP ex VAT
IP Handsets		
32178	KX-NT366 LCD Phone (white)	£290.00
32179	KX-NT366 LCD Phone (black)	£290.00
32180	KX-NT346 6-line IP Phone (white)	£202.00
32181	KX-NT346 6-line IP Phone (black)	£202.00
32182	KX-NT343 3-line IP Phone (white)	£180.00
32183	KX-NT343 3-line IP Phone (black)	£180.00
33288	KX-NT321 1-line IP Phone (white)	£130.00
33289	KX-NT321 1-line IP Phone (black)	£130.00
32189	IP Phone PSU	£29.00

KX-NT366
...a closer look
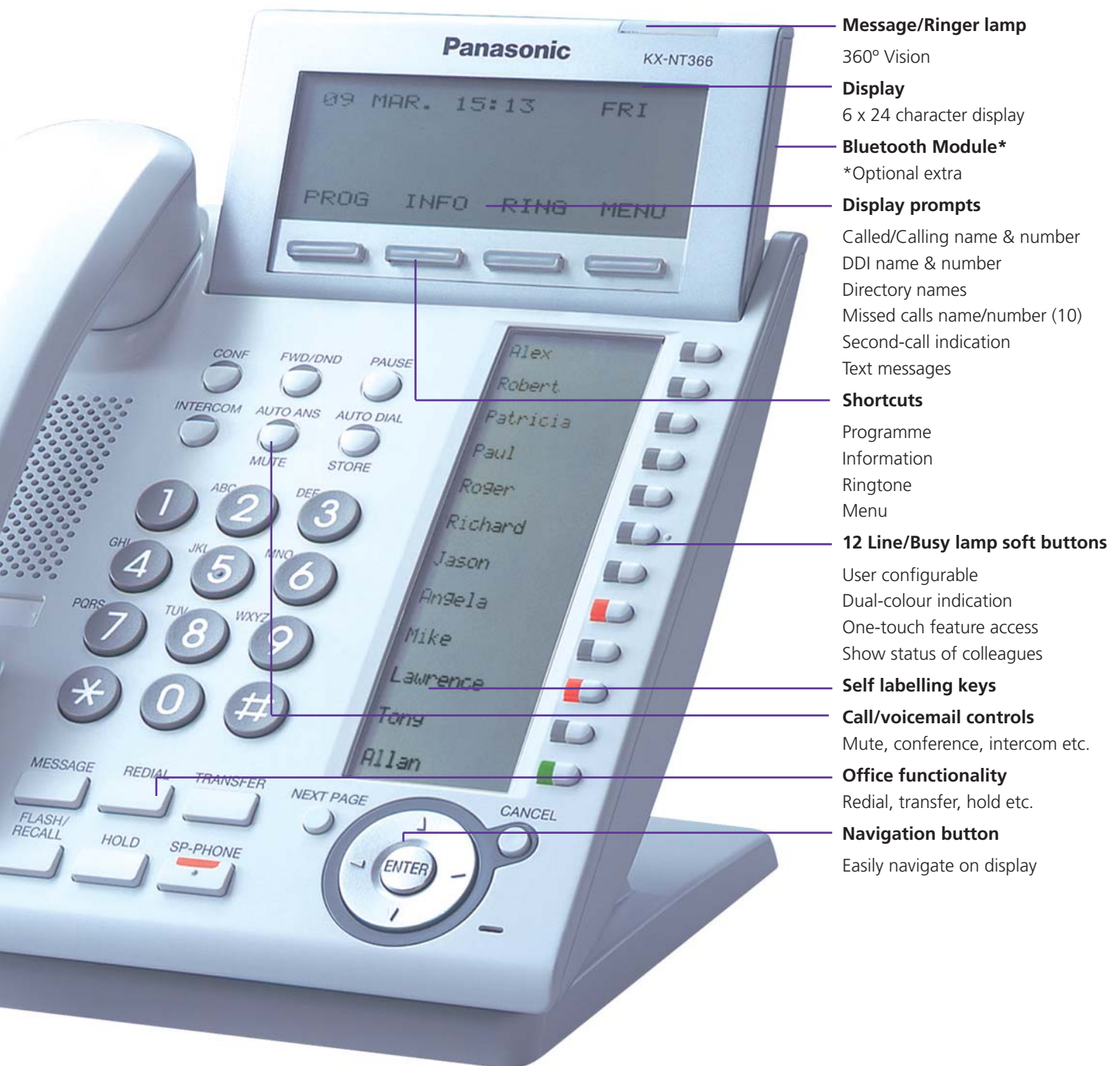
Message/Ringer lamp
360° Vision

Display
6 x 24 character display

Bluetooth Module*
*Optional extra

Display prompts

Called/Calling name & number
DDI name & number
Directory names
Missed calls name/number (10)
Second-call indication
Text messages

Shortcuts

Programme
Information
Ringtone
Menu

12 Line/Busy lamp soft buttons

User configurable
Dual-colour indication
One-touch feature access
Show status of colleagues

Self labelling keys

Call/voicemail controls
Mute, conference, intercom etc.

Office functionality
Redial, transfer, hold etc.

Navigation button
Easily navigate on display

KX-TCA355 DECT
...a closer look

Large Back-lit Blue LCD

200 name & number phone book

Shortcuts

Talk / speakerphone

Ruggedised IP54 compliant casing

Illuminated keypad

Vibration alert

Intercom key

Redial key

KX-TDA Handsets

Panasonic KX-T 7600 series hybrid phones provide the ultimate in telecommunications with the expansion capabilities to grow with a business. With outstanding time-saving features that are easy to use, these phones are versatile and 'future ready'.

KX-TDA 7668
- 1-line LCD
- 8 programmable keys
- Hands-free speakerphone
- Headset port (2.5mm)

KX-TDA 7630
- 3-line LCD screen
- 24 programmable keys
- Hands-free speakerphone

KX-TDA 7633
- 3-line backlit LCD screen
- 24 programmable keys
- Hands-free speakerphone
- Optional USB port

KX-TDA 7636
- 6-line backlit LCD display
- 24 programmable keys
- Hands-free speakerphone
- Optional USB port

KXNT 136 IP handset
Features as the KX-T 7636 plus:
- Compatible only with the Panasonic KX-TDA 100, 200 & 600 systems
- Can be powered over LAN (POE) or optional AC adaptor
- Requires KX-TDA 0470 16 channel IP extension card

KXNT 265 IP handset
Features as the KX-T 7668 plus:
- Compatible only with the Panasonic KX-TDA 100, 200 & 600 systems
- Can be powered over LAN (POE) or optional AC adaptor
- Requires KX-TDA 0470 16 channel IP extension card

KX-NCS 8100
- IP softphone
- 6-line backlit LCD display
- 24 programmable keys
- Hands-free speakerphone
- Requires KX-TDA 0470 16 channel IP extension card

KX-T 7710
- Ideal for hotel applications
- One-touch buttons
- Speed dialling
- Headset compatible
- Hands-free speakerphone

Visit us at **www. nimans.net/ panasonic** for everything Panasonic

nimans Nimans straightforward guide to Panasonic

KX-TDA handset specifications

KX-TDA series	7668	7630	7633	7636	NT136	7710	7640	7603	NT265
LCD	1 line	3 line	3 line	6 line	6 line	-	-	-	1 line
Line keys	8	24	24	24	24	-	60	12	8
Speakerphone	●	FD	FD	FD	FD	-	-	-	●
Headset jack	●	●	●	●	●	-	-	-	●
Back light LCD	-	-	●	●	●	-	-	-	-
D-XDP (v1.1)	●	●	●	●	-	-	-	-	●
USB interface	-	-	option	option	-	-	-	-	-
12 key add-on module	-	-	option	option	-	-	-	-	-
NAVI key	-	●	●	●	●	-	-	-	-
Dual colour LEDs	●	●	●	●	●	-	●	●	●

KX-TDA 7640
- 60 key DSS Console for all KX-T 7600 series handsets (requires digital extension)

KX-TDA 7603
- 12 flex add-on key module for KX-T 7636 & KX-T 7633 only
- No restrictions for programmable keys (digital extension not required)

Code	Description	SSP ex VAT
30073	KX-T 7668 8 key, 1 line LCD speakerphone - white	£71.00
30074	KX-T 7668 8 key, 1 line LCD speakerphone - black	£71.00
22953	KX-T 7630 24 key, 3 line LCD speakerphone - white	£180.00
22954	KX-T 7630 24 key, 3 line LCD speakerphone - black	£180.00
22951	KX-T 7633 24 key, 3 line backlit LCD - white*	£200.00
22952	KX-T 7633 24 key, 3 line backlit LCD - black*	£200.00
22949	KX-T 7636 24 key, 6 line backlit LCD - white*	£260.00
22950	KX-T 7636 24 key, 6 line backlit LCD - black*	£260.00
26831	KXNT 136 IP handset 24 key 6 line backlit LCD - white	£220.00
26832	KXNT 136 IP handset 24 key 6 line backlit LCD - black	£220.00
26833	KXNT 136 power supply unit	£29.00
30028	KXNT 265 IP handset 8 key 1 line - white	£150.00
30029	KXNT 265 IP handset 8 key 1 line - black	£150.00
30517	NCS8100 IP softphone (6pk)	£594.00
23367	KX-T 7710 business SLT phone - white	£37.00
23899	KX-T 7710 business SLT phone - black	£37.00
22957	KX-T 7640 60 BLF DSS console - white	£190.00
22958	KX-T 7640 60 BLF DSS console - black	190.00
22959	KX-T 7603 12 key add-on module - white	£55.00
22960	KX-T 7603 12 key add-on module - black	£55.00
* Optional USB port		

Business DECT

These cordless telephones can be integrated to the system allowing users all the benefits of conventional telephones as they move around the premises, inside or outside.

KX-TDA 15 & 30 systems

For these systems, there's no extra costly DECT interface to install - simply plug a KX-TDA 0141 base station (cell station) directly into a digital extension port. Roaming distances can be increased easily with self registering KXA-272 repeaters, to give:

- **KX-TDA 15** - Max 2 cell stations (providing 4ch), max 28 DECT handsets
- **KX-TDA 30** - max 8 cell stations (providing 16ch), maximum 28 DECT handsets
- **KX-TDA 100 & 200** - DECT can either be connected directly into a digital extension port to give:
  - **KX-TDA 100** - max 16 cell stations, max 128 DECT handsets
  - **KX-TDA 200** - max 32 cell stations, max 128 DECT handsets

Or alternatively install a dedicated card:

- 0142 card - KX-TDA (4ch) DECT cell station
- 0143 card - enables users to add up to 4x (KX-TDA 0142) with up to 64 DECT handsets
- 0144 card - enables users to add up to 8x KX-TDA 0142 with up to 64 DECT handsets. Up to a maximum of 2 interface cards can be installed in a KX-TDA 100 and 4 in a KX-TDA 200

KX-TCA 155

- Range up to 50m indoors, 200m outdoors
- Access up to 1000 system speed dial numbers
- Handsfree speakerphone
- 200 personal speed dial numbers
- Caller ID
- Message waiting indicator
- Headset compatible

KX-TCA 256

Features as the KX-TCA 155 plus:

- Large back lit blue LCD
- Extended signal range
- 2 Programmable keys
- Headset support
- Vibration alert
- Smaller & lighter

Code	Description	SSP ex VAT
24415	155 DECT handset & charger KX-TCA 155	£99.00
31969	355 Ruggedised DECT handset	£187.50
30075	256 DECT handset & charger KX-TCA 256E	£159.00
25322	DECT repeater KXA272	£150.00
24722	2 channel DECT cell station* KX-TDA 0141	£300.00
22928	4 channel DECT cell station** KX-TDA 0142	£300.00
32190	8 channel cell station*	£975.00
24414	4 channel cell station interface card KX-TDA 0143	£449.00
22929	8 channel cell station interface card KX-TDA 0144	£799.00

* Requires digital extension   ** Connects to KXTDA 0143 or KXTDA 0144 only

KX-TVM 50, 200 & NCV200 Voice messaging systems with Unified Messaging

Panasonic voice mail systems provide efficient tools for handling telephone traffic and internal communication needs.

Customers can record, send and retrieve messages 24 hours a day, 7 days a week from anywhere in the world. Voice messages recorded can be retrieved via the phone or in an email. Date and time stamped, they can also be deleted, or stored and forwarded (as a .wav file).

This allows users to manage both their voice mail and email from a desktop PC. Plus with the KX-TVM 200, customers benefit from over 1000 user mail boxes and increased call recording capacity. Individual extensions can be set up with custom menu options giving a business greater flexibility.

Additional activity reporting features:

- Call handling, message status, subscriber set-up, security info, hourly statistics & email log
- Both systems are compatible with KX-TA 624, KX-TES 824, KX-TD and KX-TDA systems

Code	Description	SSP ex VAT
27265	KX-TVM50 (2 port, 4 hour recording)	£879.00
27266	KX-TVM200 (requires TVM204 to work)	£1599.00
31111	NCV Server	£2700.00
27267	4 port DPT interface TVM204	£470.00
27268	Remote modem for 50 & 200 TVM296	£199.00
27269	2 port DPT/APT/SLF interface TVM502	£320.00

Code	Description	SSP ex VAT
27270	KX-TVM524 4 hour extra record time	£299.00
27271	LAN interface TVM594	£199.00
27601	KX-TVM200 & TVM204 bundle	£2069.00
28057	19" rackmount for KX-TVM50 KXA 249X	£66.00
24726	KX-TVM200 Rackmount kit	£45.00

KX-TDA VoIP

IP Networking

Cost effective solutions for linking branch offices and homeworkers to their head offices.

This feature allows users to seamlessly connect multiple KX-TDA systems together, regardless of what system is in each location. By placing a VoIP trunk card in each KX-TDA unit, your customers can make and transfer calls between sites for free.

- Up to 512 systems can be networked together
- A router is required when multiple devices are at the end of a circuit

IP Trunk Cards

- For the KX-TDA 15 & 30 install: 4ch VoIP trunk card (KX-TDA 3480)

- KX-TDA 100 & 200: 4ch VoIP trunk card (KX-TDA 0484)
- KX-TDA 100 & 200 (v2.0): 16ch VoIP trunk card (KX-TDA 0490)

System connectivity

Each call will utilise 13k of bandwidth, therefore consideration must be given to what type of connection (ADSL, SDSL, etc) each individual will use to access the KX-TDA system.

- A 512k ADSL connection - has a 512k download and 256K upload speed

Normal ADSL connections at worst can be shared between 20-50 other users.

In this situation it's advisable to use an uncontended ADSL connection, or SDSL for home workers. For multiple users alternative links may be required.

- SDSL connections - provides same speed in both directions

SIP Trunks for low cost tariff VoIP calls

The SIP-GW4 is a brand new gateway card enables the KX-TDA 15 & 30 to connect SIP based Internet Telephony Service Providers (ITSP).

This in turn provides low cost calls VoIP calls over a broadband IP network. The SIP-GW4 comes with 4 port SIP trunks which can be increased to 8 ports with the SIP-DSP4 (KX-TDA 3451) module.

KX-TDA 30 with KX-TDA 3480 extn card

KX-TDA 200 with KX-TDA 0484 extn card

Branch office

ADSL

Head office

Code	Description	SSP ex VAT
31775	KX-3450x 4 ch SIP trunk card	£405.84
31776	KX-3451x 4 ch SIP DSP card	£202.92
24721	4 channel VoIP trunk KX-TDA 3480	£675.00

Code	Description	SSP ex VAT
25893	4 channel VoIP trunk KX-TDA 0484	£675.00
26835	16 channel VoIP trunk KX-TDA 0490	£3000.00

IP Extensions - Ideal remote workers solution

A popular application for home workers and branch offices; the IP extension card allows remote users to connect IP handsets to a KX-TDA system giving them the full feature set as if they were in the office environment.

By installing an IP extension card into the KX-TDA system, up to 16 IP handsets can be connected regardless of the location of the users from head office.

- A firewall requires a VPN tunnel back to the PBX

IP Extension Card

- 16ch VoIP extension card (KX-TDA 0470)
  Requires: IP handset (KX-NT 136)
  (or KX-TDA 265 or NCS8100)
  Optional: AC adaptor (KXA 237E)

Code	Description	SSP ex VAT
31774	KX-TDA 3470x 4 ch IP ext card	£581.10
26830	16 channel VoIP extension card kxtda 0470	£535.00
26831	KXNT 136 IP handset - white 24 key 6 line backlit LCD	£220.00
26832	KXNT 136 IP handset - black 24 key 6 line backlit LCD	£220.00
30028	KXNT 265 IP handset - white 8 key 1 line	£150.00
30029	KXNT 265 IP handset - black 8 key 1 line	£150.00
30517	NCS8100 IP softphone (6pk)	£660.00
26833	KXNT 136 power supply unit	£29.00

Applications

CommsOffice allows your customers to monitor the performance of their telephone system & data network to analyse trends, call costs, staffing levels, manage a contact centre or simply monitor staff productivity levels.

An innovative suite of communications provides management information at-a-glance including a 'Today' screen which shows telephony & data activity in an organisation. Comprehensive reports provide further detail and these can be saved, e-mailed or converted into PDF format for presentations or scheduled to run at specific times, such as end of month.

Call sales for pricing

CommsOffice Lite

Helps limit costs and optimise the performance of a telephone system:

- Analysing most expensive calls
- Monitoring levels of incoming & outgoing calls
- Checking how quickly the phone is being answered
- Making sure calls are not being missed
- Identifying abuse or misuse of the telephone
- Ensuring sufficient telephone cover is provided at peak times
- Improving customer service via the telephone
- Managing sales teams responsible for outgoing calls
- Supervising support teams responsible for incoming calls

CommsOffice Standard

Features as CommsOffice Lite plus live ACD (automatic call distribution) statistics features:

- Wallboard view by agent, group or queue
- Scrolling 'ticker tape' view that scrolls across a screen
- ACD alarms – visual or by audio when call queues get too long or that highlight abandoned calls

CommsOffice Pro

Features of CommsOffice Standard plus additional data monitoring features:

- Internet traffic monitoring & bandwidth usage
- E-mail traffic reports: highlight business & personal e-mails

- See largest downloads or use of on-line games, on-line shopping sites etc

CommsOffice Lite & Standard are upgradeable, contact us for pricing and further information.

CommSoft
Think

Voice Recording

Panasonic Voice Recording features unrivalled recording and reporting features in one package.

And with the unique internet management and email monitoring capabilities, dealers can expect a high demand from a surprisingly broad base of customers.

Liability and the need to resolve disputes is now a key issue with a rapidly growing number of companies. Increasing pressure from the Financial Services Association including the 'treating customers fairly' scheme also means financial firms are required to prove this.

Call recording is the perfect solution, but traditionally is way beyond the budget of most SMEs, with price tags going into sometimes tens of thousands. Panasonic Voice Recording however, starts at around £3,500 SSP and is fully expandable.

Compatible with analogue lines, ISDN 2 & ISDN 30. Contact sales for pricing schedule and further information.

- Real-time monitoring
- Easy search/Playback
- Unlimited Remote access program, web browser, or over the phone
- Automatic or on demand recording
- Quality control score or grade
- Date/time stamp
- Capture extension, agent, time, caller id, dialled numbers, duration, final destination
- Automatic archiving to DVD+R, network, etc.

Key 'return on investment' arguments for call recording

- Liability: Resolve disputes & protect the company with recorded evidence
- Quality control: Improve employee performance & customer satisfaction

- Training: Coach employees with examples of high & low quality calls
- Marketing data: learn about customers & their response to marketing campaigns

Ideal customers for Panasonic Voice Recording

With liability and quality control being the key reasons to buy, the marketplace is huge and also expanding. GP surgeries and medical centres have to record all 'out of hours' calls, and new pressures from the FSA (Financial Services Association) demands that voice transactions be as easily recovered and audited as any other kind of electronic record. As a result, the number of potential sales is inspiring.

Call sales for pricing

Applications

Phone Assistant Suite

Phone Assistant productivity application suite blends the power of the Panasonic KX-TDA Hybrid IP PBX together with personal computers.

This provides a truly remarkable CTI software allowing intuitive point and click operation.

Offering complete integration between a PC network and a compatible Panasonic phone system. All applications - when used together can significantly enhance enterprise business productivity and help propel your business to the next level.

Panasonic Phone Assistant applications come in Express (for download), and Pro (Licensed - full feature) versions.

The software targets three key aspects of business telephony communication needs:

- Phone Assistant (Express/Pro) for Personal productivity
- Phone Assistant Status (Express/Pro) for Managers & Team leaders
- Phone Assistant Manager (Free Web Interface) for IT Administrators
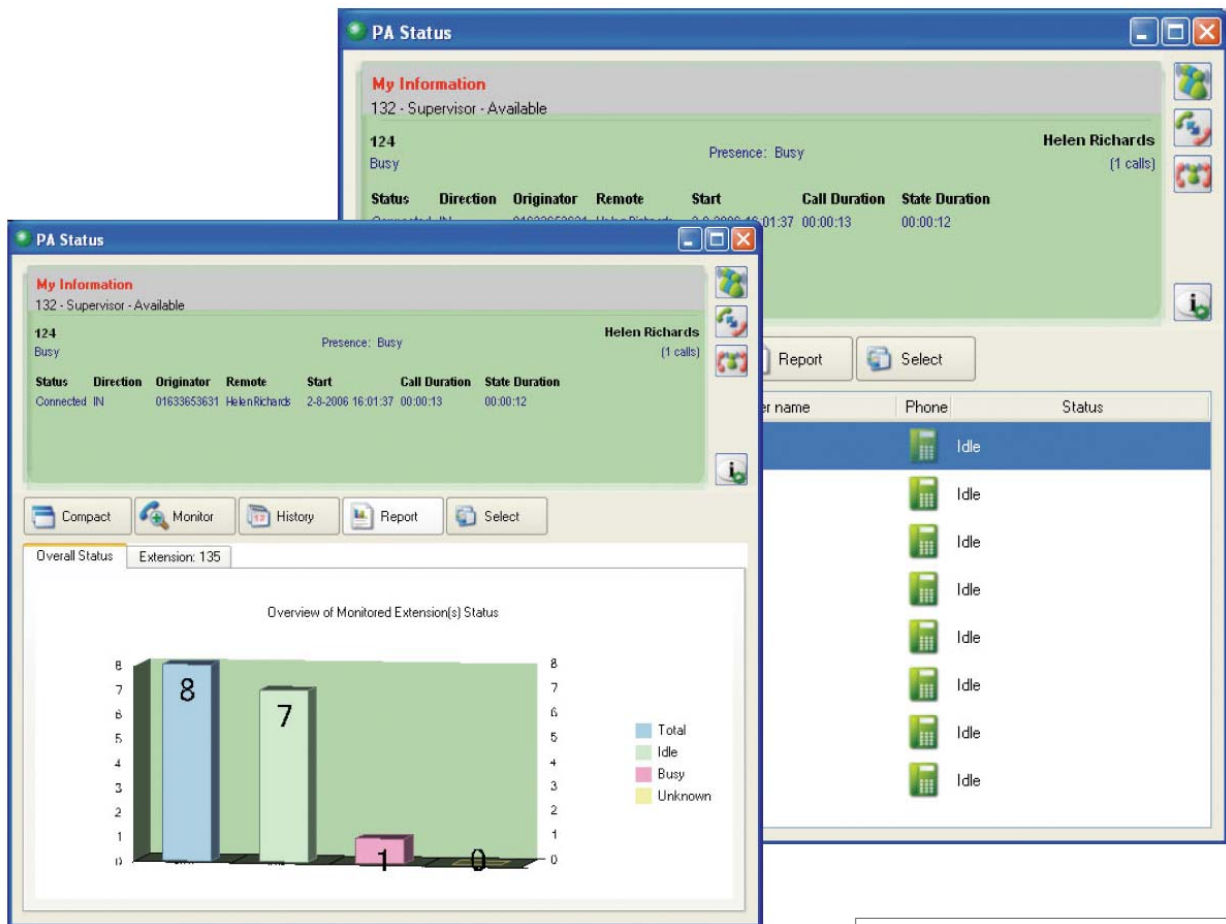
Code	Description	SSP ex VAT
31768	Phone Assistant Pro (1 user)	£79.00
31769	Phone Assistant Pro (5 users)	£345.00
31770	Phone Assistant Pro (10 users)	£670.00
31771	Phone Assistant Pro (128 users)	£2400.00

PC Phone / PC Operator Console

The Panasonic KX-T 7636 and KX-T 7633 handsets have an optional USB port providing a first-party CTI tool.

Using PC and the telephone together can be more efficient and present a more professional image to callers. This option is ideal for companies running CRM packages. Busy PC operators or call handlers can enjoy all the features of the KX-TDA via a PC phone rather than handset telephone.

PC Operator Console

- View extension, line & parked call status
- Incoming call queue display
- Drag & drop transfer
- Sort by name, extension number or status
- Graphical interface access to KX-TDA features and speed dial list

PC Phone

- Integrates with Microsoft Outlook
- Call recording to your PC
- Graphical interface access to KX-TDA features & speed dial list

Code	Description	SSP ex VAT
22962	PC Phone	£199.00
22961	PC Console	£499.00
22947	USB adaptor - white	£99.00
22948	USB adaptor - black	£99.00
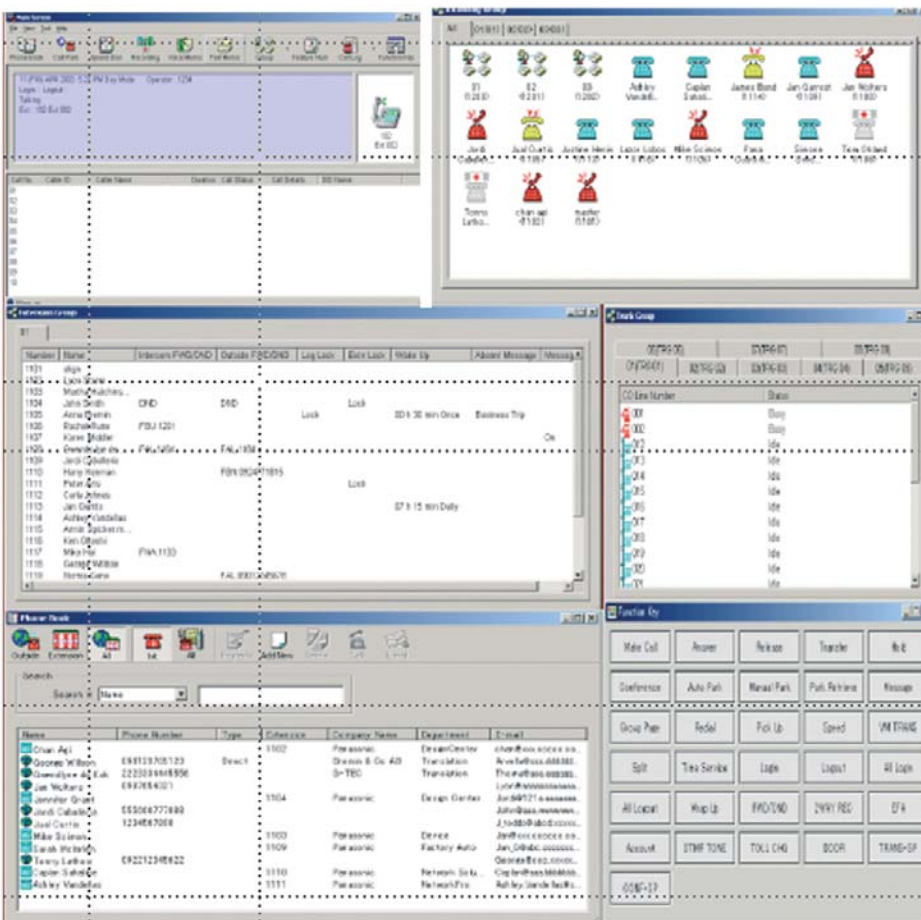
Applications

Callista Hotel Applications

Powerful, affordable property management for small & midsize hotels, motels, B&Bs, internet cafes, small private hospitals & lodges.

---Callista Light

Callista light is ideal for businesses and hotels that need only basic call accounting functions. Perfectly suited small hotels/motels and shops where the public has access to telephones for local, national, international and mobile calls.

- 0 - 50 extensions £975.00
- 51 - 100 extensions £1000.00
- 101 - 250 extensions £1050.00
- Includes annual maintenance, installation & training

Callista Hospitality

Callista Hospitality has been designed for small to medium sized hotels/motels that need an effective, reliable, easy to use system to manage guests, telephones, invoicing, debtors and management reporting.

It provides advanced software design to make the day-to-day management of hotels more efficient and allows for the provision of new levels of service to guests.

The system incorporates on-line reservations, automatic faxing or e-mailing of confirmation letters directly from the system, automatic scheduled reporting, accurate telephone billing for cost recovery and other advanced hospitality features to make property management simple, efficient and profitable.
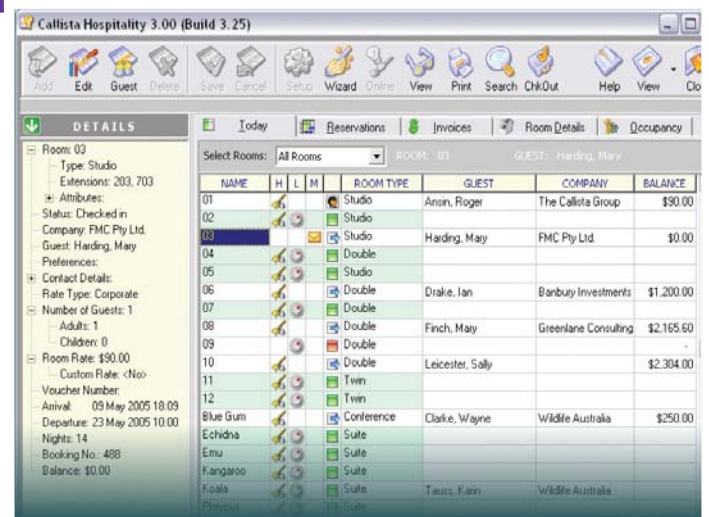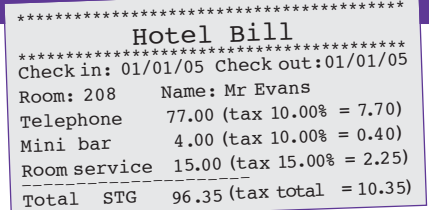
- Up to 25 rooms £1950.00
- 25 - 49 rooms £2250.00
- 50+ rooms £2700.00
- Includes annual maintenance, installation & training

KX-TDA Hospitality Solution Built-in (enhanced v2.0 required)

Panasonic Voice Recording features unrivalled recording and reporting features in one package.

zzzzzzWith the KX-TDA Hospitality Solution, the receptionist can check-in/out guests using system telephones, and even generate a detailed call record printout as guests wait to check-out. Remote wake up or reminder alarms can also be set up for guest during their stay.

- Check-in/out - room status monitor
- Programmable message printout
- Generate guest room billing & add charges at check-out
- Guest room voice mailboxes
- Extension wake up call function

```
*****************************************
              Hotel Bill
*****************************************
Check in: 01/01/05 Check out:01/01/05
Room: 208      Name: Mr Evans
Telephone    77.00 (tax 10.00% = 7.70)
Mini bar      4.00 (tax 10.00% = 0.40)
Room service 15.00 (tax 15.00% = 2.25)
------------------
Total  STG    96.35 (tax total  = 10.35)
```

PBX Feature Compatibility

Operation	TDA15	TDA30	TDA100/200
Room Status Monitor	Yes[1]	Yes[1,2]	Yes[1,2]
Programmable Print-Out	-	Yes[1,2]	Yes[1,2]
Guest Room Billing	-	Yes[1,2]	Yes[1,2]
Timed Reminder	Yes	Yes	Yes
Remote Timed Reminder	Yes	Yes	Yes[1,2]
Timed Reminder with VM*	Yes[1]	Yes[1]	Yes[1,2]
Guest Room Voice Mail*	Yes	Yes	Yes[1,2]

** KX-TVM Voice Mail System required   1: Requires software Version 2 & above. 2: Requires installation of Memory Expansion Card

Hotel Application Interface (HAI)

Enables KX-TDA systems to integrate with 3rd party hotel management packages.

The HAI is a suite of software components that allows third party hotel management packages such as Property Management Software (PMS) or Fidelio, to fully integrate with the KX-TDA systems, providing a more efficient level of service to customers.

Front of House - HAI is a bi-directional interface providing monitoring and control between the TDA system and hospitality applications.

- Un-bar/bar on check-in/check-out
- Set/remove message waiting lamps
- Set/remove extension names
- Enable/disable call barring
- Automatic call log & billing
- Alarm/wake-up calls
- Courtesy phone

Call logging - all calls can be logged and reported for accurate billing and analysis. Call charging is provided by some PMS and front end applications. If these do not support or feature call charging, Panasonic recommend Comms Office to provide this facility.

HAI PC requirements: Pentium II 300Mhz or higher, 128mb RAM (min 256mb recommended), 1 free serial port (if connecting to KX-TD), 1 free USB port (to connect to KX-TDA 600/200/100/30/15 Base T network card for KX-TDA with CTI link card), Windows operating systems: 2000, XP Pro, NT4 , System software levels: KX-TDA 30/100/200

NMS Adaptive CTI

Adaptive CTI makes office life easier! Everyone has a computer and telephone - making both office tools work together better.

CTI Basic 5 users

Personal contacts list (see who's calling), CLI onscreen call control, grab and dial, other users extension status (BLF -DSS) inbound, outbound and missed call list.

Additional users available, please call the Panasonic team for further details.

| Code	Description	SSP ex VAT
28579	CTI Basic (5 users)	£450.00

CTI Professional 5 users

All features of CTI Standard plus, dial feature codes, screen pop any database, screen pop based on DDI, COM object for third party integration.

Code	Description	SSP ex VAT
29554	CTI Professional (5 users)	£1050.00

CTI Standard 5 users

All features of CTI Standard plus, dial feature codes, screen pop any database, screen pop based on DDI, COM object for third party integration.

Code	Description	SSP ex VAT
29930	CTI Standard (5 users)	£750.00
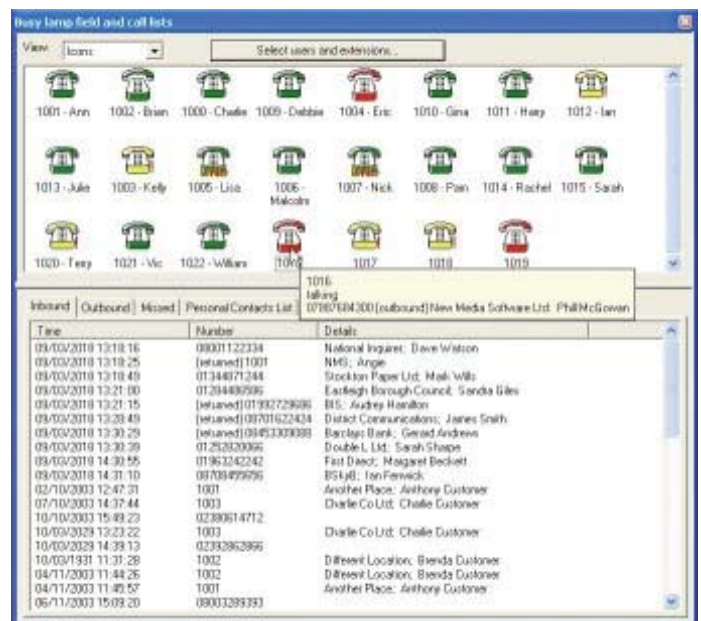
Applications

Voice processing / auto attendant

Pana-Vox Lite

A Panasonic specific voice mail system that's perfect for your customers & margin rich for you! It is compatible with most Panasonic systems, and features 2 ports and a maximum of 5 hours storage and 48 mailboxes which are remotely accessible for message collection and internal/ external notification (non-upgradable).

- 48 mail boxes with 45 voice messages
- Remotely accessible for message collection
- PC programmable
- Date / time stamp on every message
- New / old storage (auto delete on old messages default after 30 days)
- Internal / external notification
- Message forwarding (message retrieve, save and delete)
- Broadcast messages up to five mailbox groups or every mailbox fax routing

Code	Description	SSP ex VAT
21908	Pana-Vox Lite	£599.95

Call accounting & billing system

Pana-Billing Suite

Pana-Billing is a powerful telephone system call management and billing application to ideal for hotels and SMEs. It stores complete incoming / outgoing details.

- **The Hotel version** - enables the billing of telephone calls & extra charges for the extensions assigned to room or booth
- **The Business version** - produces detailed & summarised call reports, trunk occupancy reports & a breakdown of costs by department.

- Connects to RS-232 port of PBX
- Capacity: 32/64/128 extensions
- Compatible with KX-TDA 100, 200, KX-TA, KX-TD 816, 1232

Code	Description	SSP ex VAT
21247	Pana-Billing suite (32 extensions)	£749.95
21249	Pana-Billing suite (64 extensions)	£899.95
21250	Pana-Billing suite (128 extensions)	£1099.95

Call recording

Pana-Record

A professional quality call recorder that records phone calls direct to a PCs hard drive. It provides ull digital connectivity between a telephone and PC via a USB port, and can be easily installed.

- No sound card required
- No handset cord connection
- No complex sound card adjustments
- Simple connectivity to a USB port
- Record all calls or select calls individually

Code	Description	SSP ex VAT
23988	Pana-Record	£169.95

Visit us at **www. nimans.net/ panasonic** for everything Panasonic

Peripherals

Plantronics CS60 wireless headset

Work, walk and talk without any wires! Calls can be taken away from the desk, up to 100 metres away from the compact base unit - simply at the press of a button. A CS60 is ideal for those working in noisier offices. The long boom arm includes a noise cancelling microphone, that reduces unwanted background noise.

- Up to 9 hours talk time
- DECT technology

- Answer / end call button
- Fully convertible with choice of 4 headset wearing options
- Automatic remote call pick-up/end
- Take and end calls away from desk without extra HL10 Handset Lifter required

Code	Description	SSP ex VAT
23853	Plantronics CS60	£179.00

Jabra GN2000 corded headset

Designed for comfort and built to last, the Jabra GN2000 is robust enough to cope with the heavy demands of daily use. The headset is available in both monaural (single earpiece) & binaural (double earpiece) style, plus an optional noise cancelling (NC) microphone.

- Sturdy, impact resistant construction
- Excellent voice & transmission clarity

- 3 year warranty
- True wideband audio response (150 - 6800 Hz) with acoustic shock protection from high pitched noises

Code	Description	SSP ex VAT
23853	Plantronics CS60	£179.00

Plantronics CS60 wireless headset

The TC-200 is the only Panasonic endorsed headset solution. It provides a comfortable, lightweight and durable solution, and delivers optimum sound quality. The durable construction provides a well balanced, lightweight chassis. The ear-pad pressure is evenly distributed and the unique 'dovetail' on the monaural version is made to sit higher on the head for all day comfort.

- Available in monaural or binaural styles
- Extremely lightweight

- Plugs directly into headset/ handset port
- Noise cancelling microphone
- Durable ABS & acetyl construction
- Excellent voice & transmission clarity
- Semi-rigid nylon boom with 'click' positioning
- 2 years warranty & after sales support

Code	Description	SSP ex VAT
24030	TC-200 monaural headset	£99.95
24031	TC-200 binaural headset	£154.95

Polycom SoundStation2 audio conference unit

This next generation conference phone redefines the standard for business quality voice conferencing. Fully duplex for natural, simultaneous two-way conversation, the SoundStation2 delivers remarkable voice quality and a 50% increase in microphone sensitivity over it's predecessor, the award-winning Polycom SoundStation.

- Speak normally up to 3 metres away
- Ideal for up to 8 people

- High quality sound
- Noise & echo cancellation
- Full duplex system allows natural two-way conversations
- 360º microphone room coverage

Code	Description	SSP ex VAT
26806	SoundStation2	£399.95
26807	SoundStation2Ex (expandable)	£413.95

The Nimans Promise

- **Next day UK delivery**
- **Order as late as 6.30pm**
- **Competitive pricing**
- **Free technical support**
- **Knowledgeable sales team**
- **Online ordering & order tracking**
- **Fast track training & accreditation**

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