

Panasonic **Electronic Modular** **Switching System**

7000 Series

Product Description

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System Parameters

System Microprocessor	16 Bit 8088
System Memory	0.5 Megabit RAM
	1.5 Megabit EPROM
Switching	Space Division
Cabling (proprietary)	2 pairs (4 wires)
Analogue (SLTs)	1 pair (2 wires)
Exchange Paths	Non Blocking
Intercom Paths 308 / 616 / 1232	3 / 4 / 5

System Hardware

Cabinets

Note: This table shows the maximum values possible in the system, the actual values will depend upon the configuration of the specific system and its components.

	KX-T30810BE	KX-T61610BE
Maximum port configurations		
Exchange line ports	3	6
Extension ports	8	16
Max number of Keyphones	8	16
Max number of SLTs	7	15
Max number of Extensions	8	16
Max number of DSS Consoles	n/a	2

	KX-T123210BE
Maximum port configurations	
Exchange line ports	12
Extension ports	32
Max number of Keyphones	32
Max number of SLTs	31
Max number of Extensions	32
Max number of DSS Consoles	2

System Components

KX-T30810BE Central Control Unit

The central control unit is fully configured at 3 exchange lines and 8 extension ports. The following devices are built in:

1. Music input
2. Paging output
3. Ring generator
4. DTMF receivers
5. All system control

KX-T61610BE Central Control Unit

The central control unit is fully configured at 6 exchange lines and 16 extension ports. The following devices are built in:

1. Music input
2. Paging output
3. RS232C call logging port
4. Ring generator
5. DTMF receivers
6. All system control

KX-T123210BE Central Control Unit

The central control unit is initially configured 8 exchange lines and 16 extension ports. The following devices are built in:

1. Music input
2. Two paging outputs
3. RS232C call logging port
4. Ring generator
5. DTMF receivers
6. All system control

KX-T123280E 4 Circuit exchange Line Card (KX-T123210BE Only)

Interface card to allow connection of 4 PSTN or equivalent lines. Each cabinet will allow one card to be installed.

KX-T123270E Extension Card (KX-T123210BE Only)

Interface card for the connection of up to 8 telephones. All ports on this module will support keyphones and SLT telephones.

KX-T123296E Remote Card (KX-T123210BE Only)

A 300/1200/ bps modem card which is located in the central control unit to provide remote programming and remote diagnostic option.

KX-T123241E DSS Console Card (KX-T123210BE Only)

This optional card allows connection of up to two DSS consoles to the KX-T123210BE.

KX-T123291E DISA Module Card (KX-T123210BE Only)

This optional card allows DISA operation on up to 12 lines on the KX-T123210BE.

KX-T123292E DISA OGM Card (KX-T123210BE Only)

This optional card allows the user to record a greeting message to give guidance to callers using the DISA feature.

KX-T30860E Doorphone Adapter

This optional unit allows connection of up to two doorphone units to the 7000 series CCU's.

KX-T30865E Doorphone Unit

Doorphone unit to be used in conjunction with the KX-T30860E doorphone adapter.

KX-T30866E Door Opener (KX-T30810BE Only)

This optional unit allows connection of up to two door release units to the KX-T30810BE.

KX-A16BE Back-up Battery Adapter (KX-T30810BE & KX-T61610BE Only)

Externally fitted backup power supply unit used to maintain system operation during power failure. The unit should maintain system operation for about 4 hours if the batteries are fully charged.

KX-A26BE Back-up Battery Adapter (KX-T123210BE Only)

Externally fitted lead acid cells, charged by the PBX and used to maintain system operation during power failure. The capacity of different size batteries will determine the duration of back up. Standard car batteries should maintain system operation for about 4 hours if the batteries are fully charged.

Hand-set Options

1. Proprietary Keyphones (KX-T7050E, KX-T7020E and KX-T7130E)

3. Single Line Devices

The 7000 Series offer the choice of a wide range of key hand-set.

The features which are available to hand-set users will depend upon the type of hand-set being used.

Hand-set Features

Key features of the 7000 Series hand-sets are:

One-Touch keys	The one-touch keys provide single key access to personal speed dials or system features allowing them to be called up with a single key press.
Flexible keys	Flexible keys are used as line use indicators. Unused Flexible keys can be programmed with other system functions or used as extension calling and busy lamp field keys.
Dual colour LEDs	The Flexible keys each have a dual colour LED which is used when the key is programmed as a line, extension, message waiting or call forward call key to show the status.
Message lamp	Each key telephone can have an LED lamp which is used to give visual indication of messages (Operates only when connected to the KX-T123210BE).
Distinctive HOLD key	The HOLD key's orange colour and prominent position make it easy to locate and operate.
Volume control	To adjust ringing and speaker volumes independently..
LCD display	The KX-T7130E has an alphanumeric display allowing the display of information and messages which enhance its functionality.

Hand-set Types

The table below lists hand-set types and their key specifications.

Model	Description	Flexible Keys	One Touch Keys	Dual colour LEDs	Message LED	Alphanumeric Display	Handsfree
KX-T7050E	12 key standard	12	4	✓	✓		
KX-T7020E	12 key handsfree	12	4	✓	✓		✓
KX-T7130E	12 key display	12	12	✓	✓	✓	✓
KX-T7040E	32 key console	32	16				

Answering Calls

Direct In Line (DIL)

Description

Any number of exchange lines can be assigned as DIL lines. A line assigned as a DIL line is automatically routed to a single extension. If the extension is busy or unanswered the call can be forwarded to another extension or voicemail automatically.

Benefits

Allows internal personnel a private line, calls will arrive at the nominated extension without indicating call arrival at any other extension.

Direct Inward System Access DISA (KX-T123210BE Only)

Description

Any number of exchange lines can be assigned as DISA lines. A line assigned as a DISA line automatically answers an incoming call and presents the caller with internal dial tone. The caller can then dial the extension number they require and be connected to that extension without the need for operator assistance. The system can be fitted with an optional outgoing message (OGM) card which instead of dial tone will give guidance to the caller. Callers who are unable to access their required extension (because they have a pulse dialling telephone) can be connected to the system operators.

Benefits

Can be used to assist the operator, persons familiar with the facility can dial directly to the extension they require bypassing the system operator.

Flexible Ringing Assignment

Description

The ringing assignment is completely flexible so any line can be assigned to ring at any extension(s). The ringing assignment can be different in day and night modes depending on user requirements

Benefits

Assures coverage for outside lines, increases customer satisfaction. Allows for customisation of the system in order to meet a wide variety of applications.

Delayed Ringing (KX-T61610BE & KX-T123210BE Only)

Description

The delayed ringing assignment is completely flexible so that any line can be assigned to ring at any extension(s). Extensions can be set to ring after 4, 6, or 8 (or 10 KX-T61610BE only), rings delay. Other settings include visual indication only or no indication of call arrival. The ringing assignment can be different in day and night modes depending upon user requirements.

Benefits

Assures coverage for outside lines if unanswered at the first (immediate ringing) pattern of extensions. Increases customer satisfaction. Allows for customisation of the system in order to meet a wide variety of applications.

Call Hunting on Busy (KX-T123210BE Only)

Description

The KX-T123210BE can support up to 8 ringing groups of up to 32 members each, for DIL, or extension calls.

When a call is passed to a group the call is presented to the first extension within the group. If the extension called is busy the call will be passed to the next extension within the group and so on.

Calls can be transferred to a group from another extension.

If the group is busy and an incoming exchange line call is received the group will be continually searched until an extension becomes free or the reversion timer has elapsed. Multiple calls can be directed to a busy group.

Call Pick Up (Group / Direct)

Description

Group call pick up allows a user to answer calls for other extensions in the same pick up group by activating a feature button or dialling an access code.

Direct call pick up allows a user to answer a specific ringing extension by dialling an access code followed by the extension number. The alphanumeric display advises the extension picking up the call of the calling extension or exchange line.

Benefits

Provides improved call coverage by allowing extension users to answer ringing stations without leaving their desk.

Off Hook Signalling (KX-T123210BE Only)

Description

When a user is talking on an outside line, they may be alerted of another incoming call by the system sending a call waiting tone.

Flexible Function Keys

Description

The Flexible keys can be programmed to access a feature by pressing a single button. The features which can be placed under a key are as follows:

1	Exchange line key	14	Loud ring bell pick-up
2	Direct line access	15	Speed dial
3	Pooled / Group line key	16	Directed call pick-up
4	Extension selection key	17	Message cancel
5	Paging access	18	Save / repeat dial
6	'Meet me' paging answer	19	Conference key
7	Call park	20	Group call pick-up
8	Message key	21	BGM on/off
9	Do not disturb	22	Night transfer
10	Call forward	23	Exchange line answer key
11	Absence message	24	Forward key
12	Alarm	25	Any feature accessible by dialling a code.....
13	Station lock		

Benefits

This provides the flexibility to customise a phone to the customers needs. It makes easy, one step feature access available as an alternative to feature access codes.

Flexible Night Service

Description

When the system is placed into night mode the extensions can be assigned to ring on a per line / per extension basis, differently than during the day mode. In addition, the call restriction can be changed (KX-T61610BE & KX-T123210BE). The night service can be set to turn on and off automatically at a set time per day of the week (KX-T123210BE Only).

Benefits

Provides flexible ringing for businesses with extended hours of operation or shift working. Enhances management control of call abuse by providing different call restriction options for night operation.

Holding Calls

System Hold

Description

This feature allows an extension to put a call on hold and for the call to be retrieved from any phone by pressing the associated line key.

Exclusive Hold

Description

This feature permits a extension user to maintain private and exclusive access to an exchange line while the called party is on hold. Only the extension placing the call on hold can retrieve the "held" line.

When a call is placed on exclusive hold it automatically returns as "hold recall" after a predetermined period of time.

Benefits

Prevents inadvertent interruption by other extensions by providing a busy indication on other keyphones with the same line appearance

Call Park / Park Pickup (KX-T123210BE Only)

Description

Call park has 10 set hold positions. This allows a call to be held at an extension. Any user can place a call in the "park" mode which acts like an exclusive hold. Any other extension, by simply pressing a call park pick-up button, or the feature code, can pick up that parked call.

Benefits

Better call handling capabilities Applications include: A party can not be reached at his/her extension, the caller can "Park" the call and page to that person to pick up the call.

Transferring & Intercom Calls

Internal Voice / Tone Calls

Description

The 7000 series can be set up to either voice call or tone call for intercom calls. With a voice call the caller's announcement is heard over the speaker of the called extension if it is not busy. The recipient can then use the handsfree answer-back if their extension supports the facility. Tone call will sound a tone at the receiving extension until the call is answered or the caller hangs up. This option is set up through extension programming.

Benefits

Allows each customer to select which method would best suit their business environment.

Transfer (screened / unscreened)

Description

The screened transfer feature requires that the called extension has answered and the call is announced before the transfer takes place.

The unscreened feature allows extension users to transfer their internal or external calls without having to announce the caller.

Unanswered calls will return to the extension that originated the transfer or to the operator.

Benefits

Provides efficient call processing
User friendly operation

Conference Calls

Description

This feature enables the user to conference up to 3 internal parties.

NOTES: The system can accommodate up to five simultaneous conference calls.

Locating Calls

Paging With Meet Me

Description

The 7000 Series has internal groups and external zones. The internal groups can be paged individually or simultaneously, the external zones may be paged individually or simultaneously. In addition all paging groups and zones can be paged simultaneously.

Paging will not be heard from the speakers of extensions which are busy.

A "meet me answer page" allows a user upon being paged to be connected to the extension paging by entering a code.

Benefits

Improves efficiency in locating personnel by providing dial access to paging equipment and to extensions in designated paging zones.

Improves customer service by providing faster response time to calling parties.

Camp On (KX-T123210BE Only)

Description

This feature allows extensions to queue calls to a busy extension.

The camp on tone can be programmed on a per extension basis.

Benefits

Saves time and improves productivity by eliminating repeated dialling to gain access to busy extensions.

Call Waiting (KX-T123210BE Only)

When an outside caller or another extension "camps on" to the phone. By pressing the flashing line or intercom button you can talk to the other caller. The current call is automatically terminated unless the hold feature is used. This feature allows switching between calls.

Benefits

Allows waiting calls to be answered quickly.

Call Splitting

Description

This allows you to hold a call and answer another call and to be able to swap between the two calls.

Do Not Disturb

Description

Do not disturb enables any extension user to stop all intercom and exchange line calls from ringing on their extension. When activated a do not disturb signal is sent to the calling party. Any extension can also have the privilege of overriding do not disturb set through programming.

Benefits

Enables user to quickly and easily initiate privacy for important meetings, etc.

Call Forwarding

Description

Incoming calls (internal and external) can be routed to another extension by pressing the feature key, pressing a flexible key assigned as "call forward" or by dialling the call forward code and then the extension number. The name of the extension or outside line number of the calling party appears on the display of the destination extension.

There are 3 types of call forward:

1. All calls
2. Busy / No Answer (KX-T123210BE Only)
3. To external number (KX-T123210BE Only)

Benefits

Ensures immediate call coverage for personnel that are out of the office and not part of a hunt group.

Call Forward Indication On Display

It is possible to display the call forward indication on the display of a keyset, when an extension sets call forward. This is useful when many users will be setting forward to voicemail or another extension and wish to see where the call has been directed.

Absence Message (KX-T123210BE Only)

Description

This feature, when activated, sends a status message to the calling party's display. There are a total of six messages. Some of the messages are be user interactive allowing a date, time of return, or some other variable to be entered.

The following is a list of the messages:

Benefits

Makes internal office
and minimises telephone

Message			
1	In meeting	4	Back at ??:??
2	Gone Home	5	Out Until ??/??
3	At Ext ???	6	In a Meeting

communications more efficient
tag.

Hunt Groups (KX-T123210BE Only)

Description

This feature enables calls to be directed to a specific group of extensions and for the call to "hunt" for a free extension in that group. There are up to eight hunt groups with up to 32 members in each group.

There are two types of hunt groups circular and terminate,. Circular allows entry to the group on any extension number and hunts upward through the group to the highest number and then starts at the lowest extension number and will only give busy tone if all members are busy. Terminate will hunt upward through the group to the highest extension number in the group it will return busy if all members searched are busy.

Benefits

Allows calls to be routed to departments or voicemail without the need to re-dial if an extension is busy.

Outgoing Calls

Pooled Exchange Line Access

Description

A group of outside lines can be combined together under one line key, for access to outside lines. When there are available routes the LED will remain off or green if you are currently using a line in the group, when all routes are busy the LED will show red.

Benefits

This allows for maximum utilisation of the line keys on a key telephone.

Speed Dialling - System

Description

There are 100 system memory locations. Any number up to 16 digits in length can be stored in a memory location. The system speed dial numbers can be assigned to override call barring.

Benefits

All extensions can share a common list of frequently dialled numbers.

Last Number Re-dial

Description

Pressing the REDIAL key re-dials the last number dialled without having to clear the line. If the line has been cleared the re-dial key will re-seize the line and re-dial the last number dialled.

Benefits

Saves time and frustration when trying to reach a busy number.

Save / Repeat Dial (KX-T7130E Only)

Description

This feature allows the extension user to store a dialled number by using the SAVE button, or press a feature key assigned as a save button during an outside call and later re-dial the number even if other calls have been made since the original number was saved.

Benefit

Allows other calls to be made if a called party is busy without the need to look up the number again.

Least Cost Routing (LCR)

Description

With least cost routing feature, the system can choose the most cost-effective outgoing network based on the outside number dialed. After the outgoing destination number is dialed, the LCR stores and examines the number on the basis of area code used.

The system will then check the restriction level of the user. If allowed the system will check the route of the dialed number.

One direct and one indirect carrier can be used on the 7000 series.

Benefits

Improves management of telephone expenses by providing automatic routing of outgoing calls over the most economical facility available.

Call Restriction

Description

Call restriction in the 7000 Series allows the control of access to external telephone numbers. This restriction can vary in the day or night mode. The levels of restriction are as follows:

Level	Restriction KX-T30810BE & KX-T61610BE
1	No restrictions
2	20 area codes may be denied and 40 exceptions may be specified
3	40 area codes may be denied and 20 exceptions may be specified
4	999 and extension calls only

Dialling using the SSD automatically overrides call barring.

For each area or exception code up to 6 digits may be entered. The level used when an extension is locked is 999 and extension access only.

Level	Restriction KX-T123210BE
1	No restrictions
2	20 area codes may be denied and 80 exceptions may be specified
3	40 area codes may be denied and 60 exceptions may be specified
4	60 area codes may be denied and 40 exceptions may be specified
5	80 area codes may be denied and 20 exceptions may be specified

"*", "#" or RECALL may be checked to ensure correct operation of the call barring system.

Benefits

Controls call costs and prevents call abuse by providing automatic blocking of calls placed to restricted numbers.

Call Logging Interface KX-T61610BE & KX-T123210BE

Description

By attaching a serial printer or call management system to the RS232C port , a detailed record of all incoming and outgoing calls can be kept for future reference.

The data contains information on the date and time of the call, the extension making or receiving the call, the exchange line number, the number dialled, length of the call and whether the call was transferred.

Benefits

Provides accounting management tool for allocation of telephone expenses. Identifies areas for system or feature upgrade. Provides customer with record of telephone usage which can be used in making budgetary and planning forecasts. Prevents telephone abuse and misuse by identifying unauthorised outgoing calls.

Call Logging Output

Date	Time	Ext	CO	Dial Number	Duration
24/06/96	9:00AM	200	01	01344853506	00:05'12

Other Features

Flexible Line Assignment

Description

The function keys on the keysets can be used to display lines connected to the system in a 3 different ways.

1. Direct appearance (1 line per key) of each exchange line.
2. Each key representing an exchange line group (KX-T123210BE Only)
3. Pooled line appearance - all lines unassigned to other line keys grouped under one key (KX-T123210BE)

The keys can be programmed to show the lines in any order and group and single line keys can be mixed on the same extension.

Benefits

Provides for private line ability.
Separates departments.
Conserves the number of keys to use for other features.

Idle Line Preference

Description

Idle line preference allows a user to automatically select an idle exchange line for dialling out when the hand-set is lifted or speakerphone is activated eliminating the need to manually select a line.

Intercom calls can still be made by pressing the ICM (Intercom) button.

Benefits

Provides external dial tone for each call for any user who makes more external calls than internal.

Prime Line Preference (KX-T123210BE Only)

Description

Prime line preference allows a user to automatically select a pre-set line for dialling out on when the hand-set is lifted or speakerphone is activated, thus eliminating the need to manually select lines.

The line is specified through programming of the extension. Intercom calls can be made by pressing the ICM (Intercom) button.

Benefits

Eliminates a step for dialling out.
Allows for better control of specific lines set for specific extensions.

Headset Connection

Description

The KX-T7130E is headset compatible. Headset operation can be set and cancelled using the headset / handset switch on the KX-T7130E telephone. When headset operation is activated all audio is switched to the headset, including speaker audio. The headset feature can also be used with the DSS console keys to allow ease of use.

Benefits

Allows headset operation at any extension thereby increasing the efficiency.

Extension Lock (KX-T123210BE Only)

Description

Each telephone can be locked using a three digit code, which when entered locks the extension. External calls will be disabled except 999 and 112.

Benefits

Provides added control over telephone usage.

Automatic Answer

Description

All keyphones with a speakerphone, are equipped with an automatic answer button for intercom calls. When an internal call is received the extension user being called can reply to the caller without lifting the hand-set.

Benefits

Simplifies call processing by allowing internal calls to be answered without having to pick up the hand-set. Ideal for hands free environments such as engineers, architects, executives, doctors etc.

Automatic Recall

Description

All calls transferred through extensions and left unanswered will automatically revert back to the transferring extension after a set time. The 7000 Series has an adjustable recall timer.

Benefit

Improves customer service by ensuring that calls are processed and handled within a given time.

Alternative Answering Position

Description

Two DSS consoles can be installed per system allowing the incoming traffic to be handled by two operators or in two places at different times of day.

Benefits

Allows for better control of high traffic situations.

On Hook Dialling

Description

There is no need to lift the hand-set when placing a call with any keyphone. When placing a call simply press the line or SP-PHONE/MONITOR key and dial the required number. Also, while in a conversation, it is possible to monitor the conversation by simply pressing the SP-PHONE/MONITOR key and replacing the hand-set. If you are using a non speaker phone simply pick up the hand-set to continue your conversation.

Benefits

Increases productivity by freeing up users and allowing them to do paperwork, etc.

Dial Tone Mute

Description

The external dial tone can be turned off if desired.

Benefits

Useful in environments where the hands free dialling capability is important but there is too much noise generated. Telemarketing, customer service, etc.

Alarm (KX-T123210BE Only)

Description

Each extension may set the system to call back at a specific time as a reminder of an event or meeting.

Benefits

Provides a built in alarm function.

Volume and LCD Contrast Adjustment

Description

There are different volume control functions available to keysets on a per extension basis. One volume control for the speaker, another for the ringer and one for the LCD display contrast.

Dual Colour LEDs

Description

Each exchange line key has a dual colour LED. Red is a busy line and green is the line you are speaking on. When a key is assigned as a BLF these dual colours are also utilised to indicate busy extensions, extensions that are in a DND mode, and extensions that are in a call forward mode.

Benefits

Lets you know which line you are talking on, especially when a call is put on hold.
When a call is transferred to another extension, in addition to ringing, the line will also flash green indicating which line is being transferred.
Applications include manager /secretary operation.

Microphone Mute

Description

Users have the ability to switch off their microphone for privacy.

Benefits

To ensure privacy while using the speakerphone.

Doorphone Interface

Description

Up to 2 door-phones can be attached, which may be set to ring on any combination of extensions. The doorphone interface can support one or two doorphones. The KX-T30810BE can also support one or two relays to control a door release* mechanism for each doorphone. The doorphone / opener* can be controlled via any extension.

Benefits

Provides security for companies in which entrances may be left unattended.

* Only operates with the KX-T30810BE

Background Music

Description

External music input allows the user to connect a music source to the 7000 Series. This music is used as a background music function and can be played through the speakers of keyphones.

Benefits

Creates a pleasant working environment.

Music on Hold

Description

External music input allows the user to connect a music source to the 7000 Series. Any caller placed on hold will hear the music from the external supply.

Benefits

Ensures that the caller realises they are on hold and have not been cut off.

Pulse / DTMF Dialling

Description

Each of the exchange lines can be programmed for DTMF (dual tone multi frequency) or loop disconnect (pulse) dialling on a per line basis.

Benefits

This allows for different types of lines to be attached to the system without the need for special equipment.

Produced By

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