



Crystal[®]
Telecom • Energy Meter • CCTV • LED

CONNECT TO A SUPERIOR TECHNOLOGY TODAY

Hybrid EPABX
Key Telephone System



**FIRST TIME IN INDIA
CALL TRANSFER WITHOUT FLASH***

* Only in Inspire model

CREATING BENCHMARKS SINCE 1981

Telecom | Multi Floor Apartment Solution | Audio-Video Broadcasting
Surveillance | Video Door Phone | Smart Energy Meter

Inspire 104 / 206



- 104**
 - 1 Trunk
 - 4 Extension
- 206**
 - 2 Trunk
 - 6 Extension

Inspire 308



- 308**
 - 3 Trunk
 - 8 Extension

LED Display

Inspire 414



- 414**
 - 4 Trunk
 - 14 Extension



CALLER ID



MMOH*



Battery Backup*



KTS*



Paging*



Electric Gadget Control*



Voice Message*

	Extension Function	Inspire 104 / 206	Trunk Function	
Standard	Outgoing Call	<ul style="list-style-type: none"> Auto call Back on Busy Extn. Barge in with warning tone Call Monitor Call Toggle (between Extension) Call pickup (Intercom / Trunk Call) <ul style="list-style-type: none"> (A) Common Pickup (B) Selective Pickup Call Transfer Mode <ul style="list-style-type: none"> (A) Transfer with Flash (B) Transfer without Flash Call transfer Type <ul style="list-style-type: none"> (A) Transfer after Consult (B) Transfer without Consult Call Hold Caller ID (Extension Call) Call Forward Conference (3 party) Extension to Extension Call Do not Disturb 	<ul style="list-style-type: none"> Access Group for Trunk <ul style="list-style-type: none"> (A) Access Linear Mode (B) Access Rotational Mode (C) Access Selective Mode (D) Access Reserve Mode Auto call Back on Busy Trunk Class of Service (Local / STD / ISD) COS Trunk Check Clause Call Toggle (Outword Trunk Call) Day Night Mode (Manual) DTMF Dialing External Trunk Call Global 100 Memory Bank (for All Extn.) Hot Line Dialing (Trunk No.) Last no. Redial Selective Trunk Barring Trunk Tie Digit Caller ID (Inbuilt DTMF/Optional FSK#) <ul style="list-style-type: none"> (A) Round Robin / Simultaneous (B) Transferred call (In / Out) Call Toggle (Incoming Trunk Call) DID (Direct Inward Dialing) Day Night Mode (Manual) Incoming Ring Type <ul style="list-style-type: none"> (A) Round Robin Ring Call (B) Simultaneous Ring Call 	
	Customize	Incoming Call	<ul style="list-style-type: none"> Extension Ring Type <ul style="list-style-type: none"> (A) Normal (B) Trunk (C) Executive (D) Cordless Hot line (Extension) Relay action (Manual Mode) Flexible Extn. /Features Code No. Feature Enable / Disable Code 	

	Extension Function	Inspire 308 / 414	Trunk Function	
Standard	Outgoing Call	<ul style="list-style-type: none"> Auto call Back on Busy Extn. Barge in with warning tone Call Monitor Call Toggle (between Extension) Call pickup (Intercom / Trunk Call) <ul style="list-style-type: none"> (A) Common Pickup (B) Selective Pickup Call Transfer Mode <ul style="list-style-type: none"> (A) Transfer with Flash (B) Transfer without Flash Call transfer Type <ul style="list-style-type: none"> (A) Transfer after Consult (B) Transfer without Consult Call Hold Caller ID (Extension Call) Call Forward Conference (3 party) Extension to Extension Call Alarm (One Time / Repeat) Do not Disturb 	<ul style="list-style-type: none"> Access Group for Trunk <ul style="list-style-type: none"> (A) Access Linear Mode (B) Access Rotational Mode (C) Access Selective Mode (D) Access Reserve Mode Auto call Back on Busy Trunk Class of Service (Local / STD / ISD) COS Trunk Check Clause Call Toggle (Outword Trunk Call) Day Night Mode (Manual / Auto) DTMF Dialing External Trunk Call Global 100 Memory Bank (for All Extn.) Hot Line Dialing (Trunk No.) Last no. Redial Selective Trunk Barring Trunk Tie Digit Caller ID (Inbuilt DTMF/Optional FSK#) <ul style="list-style-type: none"> (A) Round Robin / Simultaneous (B) Transferred call (In / Out) Call Toggle (Incoming Trunk Call) DID (Direct Inward Dialing) Day Night Mode (Manual / Auto) Incoming Ring Type <ul style="list-style-type: none"> (A) Round Robin Ring Call (B) Simultaneous Ring Call 	
	Customize	Incoming Call	<ul style="list-style-type: none"> Extension Ring Type <ul style="list-style-type: none"> (A) Normal (B) Trunk (C) Executive (D) Cordless Flash Time Hot line (Extension) Relay action (Manual / Auto Mode) Flexible Extn. /Features Code No. Feature Enable / Disable Code 	

Note: FSK CLI support only 2 trunk port in 414 model

Optional Value Added Function of 308 / 414

- MMOH (120 sec)**
 - Music Recordable
 - Voice Recordable
 - Put on Hold Replay
- Voice Disa**
 - 1 CH VDC
 - Welcome / Error
 - Busy / No Reply
 - Day & Night Greeting
- Relay & Paging Card**
 - Paging (Option to connect external audio amplifier for announcement)
 - Relay (Option to connect external EM Door Lock or Electric Gadgets)
- KTS Interface**
 - 2 Port Interface
 - Max. 2 KTS Connect
- FND Interface**
 - To Connect FND Display

Front No. Display of 308/414



- Features**
- Date & time Display
 - Room No. / Extn. No. Display
 - Room Buzzer Alert No. Display
 - Room call Buzzer waiting flash
 - Call waiting flash clear option

Inbuilt Value Added Function for All

- Password Protected
- Remote Programming
- RTC Function (only in 308/414) (To operate timer function for day night mode, Alarm, Flash, etc.)

- Utility at Reception of**
- Small guest house
 - Fire panel Console
 - Hospital
 - Small shop
 - PG

Save Wire
Intercom call / buzzer call on same single pair wire

Technical Specification

Technology	Microcontroller Based SPC
Trunk Loop Resistance	1200 ohms
Crosstalk	Better than 70 db
Input Power	AC 220V, 50Hz
Power Consumption	20 watt Max.
Extn Voltage	40 V DC
Cabling	KTS on 2 pair & SLT on single pair

*Required additional Hardware

Configuration & Dimension

EPABX Model	Total Port	TRK (Max.)	Extn (Max.)	Dimension (cm)		
				W	H	D
104	5	1	4	17	20	5
206	8	2	6	17	20	5
308	11	3	8	19.5	21	6
414	18	4	14	24	24	8

*Optional Utility / Function

Power Management

EPABX Model	Power Supply	SMPS Battery Backup cum Charger (Optional)	Req. No. of Battery & Rating*
104		N. A.	N. A.
206	PS		
308	PS	SMPS 12V Battery	1 no., 12V.7AH
414	SMPS	Backup (without battery)	

N.A. (Not applicable)

GAMMA Model



CALLER ID*



MMOH*



Battery Backup*



KTS*



Paging*



Electric Gadget Control*



Voice Message*



Computer*

24ZX (618 ZX)
 ⚡ Max. 6 Trunk
 ⚡ Max. 22 Extension

40 ZX
 ⚡ Max. 10 Trunk
 ⚡ Max. 38 Extension



56 KX
 ⚡ Max. 12 Trunk
 ⚡ Max. 54 Extension

96 KX
 ⚡ Max. 12 Trunk
 ⚡ Max. 94 Extension

Trunk Function

- Round Robin Ring
- Simultaneous Ring
- Delay Simultaneous Ring
- Direct Inward Dialing (DID)#
 (A) DID By Extension Number
 (B) DID By Extension Name (ZX only)
- Direct Outward Station Access (DOSA)#
 (A) To make external call
 (B) To Relay control from Remote Location
- Day / Night Mode (Auto / Manual)#
- Access Group for Trunk
- Class of service: Local / STD / ISD
- DTMF / PULSE Dialing
- External Call Forwarding (ECF)
- Hot Line Dialing (Trunk No.)
- Last no. Redial
- Linear Access Mode (LAM)
- Reserve junction line
- Selective Trunk Barring
- Walk in Class of Service
- Auto shut dyanamic lock
- Accepted & Denied Table
- Call Disconnecter (Incoming / Outgoing)
- Call Disconnecter Warning Tone
- Call Budgeting
- Least Call Routing (LCR)-100 Number
- Global Memory Bank (Common for All extn.)
 (A) (ZX Model - 90*5 no. with Name)
 (B) (KX Model 90 no.without name)
- Personal Memory Bank (Individual for Extn.)
 (A) (ZX Model - 9*5no. With Name)
 (B) (KX Model 10 no.without name)

Extension Function

- Auto Call Back on Busy / no Reply
- Caller ID (Extn. To Extn.)
- Call Camp on
- Call Hold
- Call Parking
- Call pickup (Internal/Common/Parked)
- Call toggle
- Conference (3 party)
- Do not Disturb (ZX model only)
- Flash Time
- Hot Line Dialing (For intercom)
- Alarm
 (A) One time Alarm (B) Daily Alarm
 (C) Remote Alarm (D) Duration Alarm
- Hunting Group (Busy)
- Call Forward: Busy / All calls / no reply
- Call Privacy
- Follow me

ASMDR Buffer

- Call Buffer 2150 No. (ZX Model)
- Call Buffer 1250 No. (KX Model)
- ON Line / OFF Line Call Storage
- ASMDR Billing in Rs (KX Model)
 (A) Unit Rate
 (B) Service Charge
- Time slab setting (Weekday / Holiday)

Trunk Call Printout

- Trunk Call Report
- Date wise Call Report
- Extn. Wise Call Report
- All Call Report
- Incomming Call Report with Duration
- Summary Report
- Unanswered / Missed Call Report

System Control

- Password Protected
- Built in RTC
- Bulk Programming
- Monitor
- Un supervised conference (2 party)
- Virtual Extension
 1 port - 24 ZX (Elect. Gadget & D-Lock)
 2 port - 40 ZX (Elect. Gadget & D-lock)
 1 port - 56 / 96 KX (Elect. Gadget)
- 24 / 10 Set of Time for ZX / KX Model
- Automatic ON/OFF with time duration
- Relay control from Remote Location

HOTEL Function

- Room no. wise extn no
- Floor wise room service
- Room call budgeting
- Single digit access to op-con
- Wakeup call service

Trunk Call Printout

- Room call printout
- Daily call printout
- Date wise call Report
- Hotel Name at printout report
- Guest Name at printout report

Optional Value Added Function of ZX / KX Model

External Caller ID (DTMF)
External Caller ID (FSK* Optional)
 TRK Caller ID Number on Extn
 Transferable Caller ID (FSK/DTMF)
 Outgoing No. Transfer on EXTN/KTS
 CLI Transfer from Non CLI Phone
 CLI Based Call Routing

Voice Disa (Multi- level)
 (1 CH / 2 CH for ZX & 1 CH for KX Model)
 Independent time slot of each level
 Multilevel Recordable Message for-
ZX Model
 • Welcome • Alarm • Emergency
 • Extn. Busy • No. Reply • Wrong No.
KX Model (Welcome Message only)

Op-Con / Paging / Fax
ZX Model
 • N. A. for 618
 • Optional for 40ZX
KX Model
 • Inbuilt Op- con Port
 • Inbuilt Paging Port
 • N. A. for FAX

Serial / KTS interface
ZX Model
 • Combo of KTS/Serial port
 • 2 Port. KTS int.
KX Model
 • Inbuilt Serial Port
 • Optional 2 port KTS Int.

MMOH (120 sec)
 (For All Model)
 Music Recordable
 Voice Recordable
 Put on Hold Replay

Technical Specification

Technology	Microcontroller Based SPC
Insertion Loss	Less than 1 db (Extn. To Trunk)
Trunk Loop Resistance	1200 ohms
Crosstalk	Better than 70 db
Input Power	AC 220V, 50Hz
Power Consumption	40 watt Max.
Extn Voltage	48 V DC (ZX / KX Model)
Cabling	KTS on 2 pair & SLT on single pair

*Required additional Hardware

Configuration & Dimension

EPABX Model	Total Port	TRK (Max.)	Extn (Max.)	Expansion Step	Dimension (cm)		
					W	H	D
618 ZX	24	6	22	103/004	28	38	11
40 ZX	40	10	38	103/004	28.5	32.5	13
56 KX	56	12	54	206/008	25	32	15.5
96 KX	96	12	94	206/008	43	36.5	19.5

*Optional Utility / Function

Power Management

EPABX Model	Power Supply	SMPS Battery Backup cum Charger (Optional)	Req. No. of Battery & Rating*
618ZX	PS	SMPS 12V Battery Backup (without battery)	1 no. , 12V,7AH
40ZX	SMPS	SMPS 24V Battery Backup (without battery)	2no. , 12V,7AH
56KX			
96KX			

N.A. (Not applicable)

Operator Console (40ZX / 56KX / 96KX)

- Caller-ID Number Display
- Extn. Name Storage
- Day, Date & Time Display
- Conferencing
- Memory Dialing

28 (14+14) Programmable
DSS Keys and 10 Junction



DSS 30

Features

- Message to guide at various stages
- Internal Caller's / Guest Name Display
- Auto Answer Mode
- Display of Pending Extn. & Trunk
- Call Queuing
- Call Answering in Incoming Order
- Selective Call Answering
- Operator Absent / Present Mode
- Night Mode Indication
- Buffer Status Indication
- Message Wait Display
- Total Call Charge Display of each Extns.

Key Telephone System (KTS) (Inspire 308 / 414 & 24ZX / 40ZX / 56KX / 96KX)

Features

- Alphanumeric 2 X 16 Backlit LCD
- Dial By Name
- Caller-ID (Numeric & By name)
- Auto Answer
- Direct Transfer
- SMS
- H/F Speaker Phone
- Digital Volume Control
- Status Message
- Call History
- Tri Colour LED -
 - Extn
 - Trunk
 - Busy

Keys with
Tri Colour LED



KX - 30

28 (14+14) Programmable
and 13 Function Key



Caller ID by Name - Displays the name of the Extension / Jn. Caller.



Status Message- Display Status Message like "Ext.203 Free", "P&T Ring at 201", "205 SP with Ext." etc.



SMS - (KTS to KTS & PBT to KTS) KTS can send / receive predefined SMS's (e.g.-"Greeting Message", Meeting Message" etc.). The KTS will receive SMS even while busy.



Call History- Memory of 100 incoming/ missed calls & SMS's.



Dial By Name - Memory to store 100 frequently user numbers with name.



Auto Answer - Active auto hands free mode on receiving incoming ring & auto cancelled after caller disconnection.

GSM FCT (Fixed Cellular Terminal)

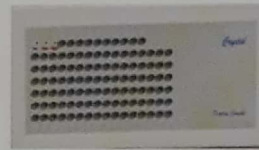


- GSM based
- Dual Band 900 / 1800 / 1900 MHz
- Single SIM Support
- Omini Directional Antenna
- RJ 11 Telephone port
- EPABX Trunk port Connectivity
- Signal Strength Indication
- CLI (Caller ID) on FCT Display
- CLI transfer to EPABX Extension

Additional with Display FCT

- 2 Line back-lit LCD (Max. 16 character)
- Call Duration on Display
- Date Time on Display

LED DISPLAY (56KX / 96KX)



- LED Display
- Run Status
- Night Mode Status
- Buffer Status
- Extension Status
- Trunk Status

Line Protection Unit (LPU)



- Lighting Protected
- RF Noise Filter
- Models
 - 2 Ports
 - 4 Ports

COMPANION PRODUCTS

Crystal DVR, NVR & Camera



- DVR 4/8/16/32 Ch.
- Camera IR/AHD/IP

Crystal Multi Floor Society Intercom



- GX-16 to 64 Ports
- G2K-16 to 2048 Ports

Crystal Video Door Phone



- 4" & 7" Hands Free VDP
- Sleek Outdoor

Crystal A/V Broadcasting



- Audio 16 Ports
- Audio-Video 16-240 Ports

Crystal Scheduler



- Stand Alone Automatic Bell
- Integrate with Broadcast

Crystal Digital EPABX



- 16 Ports to 184 Ports

Crystal Smart Energy Meter



- Dual Sense
- Pre-Paid

Some of the features require optional cards & hardware.

जय श्री बाला जी

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