

NEC

# i-Series



Powerful office communications.

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## i-Series



The i-Series ISDN compatible office communication systems from NEC are ready today to meet the challenges of tomorrow. Unique multiple-processor architecture, enhanced with Digital Signal Processor (DSP) technology, provides a solid yet flexible foundation for reliability, adaptability and performance. With the ability for extensions to have three 64K channels, the i-Series is poised to integrate with the growing worldwide voice and data network.

The unparalleled power and flexibility built into each system are further enhanced by the i-Series generation of telephones. These telephones offer interactive Soft Keys, built-in Speakerphone, and an integrated wall/desk stand. In addition, i-Series telephones can accept optional snap-in modules: a DCI-L Analog Module (to directly connect modems, cordless telephones, single line sets or fax machines), a Data Module (for CTI applications), or an Off-Hook Voice Announce Module.

The i-Series is built in our ISO 9002 approved manufacturing facilities to uphold the legendary NEC reliability standards. Port-based design, single pair wiring and modular components allow for easy expansion. Perfect for the small growing office, 28i has 28 ports and provides up to a maximum of 16 trunks or 20 extensions. The 124i can grow to a 124 port, 52 trunk by 72 station full-featured system. The 704i can expand to a 512 hardware port, 192 trunk by 512 station communications network.



SAVE-MENU  
ALARM  
CALL FWD  
DND  
INTERCOM ANSWER  
CALL FWD DEV  
ABB DIAL  
FCTN KEY  
ONE TOUCH  
[→]

MW  
1  
2  
3  
4  
5  
6  
7  
8  
9  
#  
DIAL  
CALL 1  
CALL 2  
LND  
MIC  
SPK  
DND  
HOLD

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## i-Series

**The i-Series offers an expansive set of features, easily tailored for every user, that are powerful enough to meet the new millennium's most demanding application challenges.**

- ISDN BRI and PRI compatibility
- Multiple T1 capability
- Built-in Automatic Call Distribution (ACD) to equally distribute the work load among member agents:
  - Call Queuing with programmable Overflow Announcements
  - System and Group Supervisors
  - Automatic agent Rest Mode and Work Time
  - Flexible group scheduling
  - Optional PC-based Supervisor with Reports
- Caller ID for advance identification of your incoming caller
- With NVM-Series, the industry's finest integrated Voice Mail:
  - Return Call with Caller ID
  - Answering Machine Emulation
  - Message Center Keys
  - Conversation Record
  - Park and Page
  - One touch mailbox access, Transfer and Call Forwarding
- Windows®-based PC Attendant Console Position
- Intersystem networking
- Interactive two- and eight-line Digital Display Telephones
- TAPI compatibility puts i-Series on the cutting edge of today's CTI and office automation
- Platform for wireless technology using the 900i or Traveler telephones
- Automatic Route Selection lets you tailor call routing to your own needs, and easily modify the routing as services change
- Open Architecture Interface (OAI) for third party application development
- Repeat Dialing of busy numbers
- Dual red/green LEDs on all multi-button telephones
- Analog and Digital Single Line Telephones for PBX-type operation
- One-button access to most commonly used features
- Voice Over and Reverse Voice Over for discrete announcing of critical information
- Built-in Hotel/Motel feature package with optional NVM-Series and PMS Integration
- Windows®-based PC Programming software



## Super Display

34-button set with eight-line display and speakerphone.



## Three-Channel Capability

Talk on a handset call, receive a voice announcement and have an active data call — all at the same time.

## Wall/Desk Stand

Each telephone has a built-in Wall/Desk Stand.

## Interactive Display

Eight-line, twenty character display with associated soft keys.

Interactive Soft Keys change to provide intuitive feature access.

## 24 Programmable Function Keys

User-programmable for one-button access to co-workers, features and outside lines.

## 14 Fixed Feature Keys

Quick access to commonly used features.

## Speakerphone

Built-in speakerphone for handsfree operation.

## DCI-L Analog Module

Optional snap-in Analog Module for connecting modems, cordless telephones, single line sets and fax machines.

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There is an i-Series telephone or combination of telephones to meet all your telecommunication needs efficiently, totally and economically. The i-Series telephones can feature interactive Soft Keys, built-in Speakerphone and Wall/Desk Stand, and a choice of analog, data, and Off-Hook Voice Announce snap-in modules.



*34-Button Super Display*



*Digital Single Line*



*28-Button Display*

*24-Button  
DSS Console*



*34-Button Display*

*110-Button  
DSS Console*



*Traveler*



*22-Button*



*28-Button*



*22-Button  
Display*



*900i*

## Specifications and Features

### Specifications

	28i	124i	704i
Physical Ports (max.)	28	124	704
Virtual Ports (max.)	24	24	256
Digital Stations (max.)	16	72	512
Analog Stations (max.)	8	70	374
Traveler Ports (max.)	-	192	608
Trunks (max.)	16	52	192
Data Ports (max.)	15	72	288
T1/PRI Circuits (max.)	-	2	8
Channel (max.)	-	48	192
BRI Circuits (max.)	4	24	96
Channels (max.)	8	48	192
One Pair Wiring			

### System Features

Assigned Night Answer (ANA)  
 Automated Attendant (Operator Assistance)  
 Automated Call Distribution  
 Automatic Night Transfer  
 Automatic Number Identification (with Name Look Up)  
 Automatic Route Selection  
 Bridged Fax Line  
 Caller ID (with Name Look Up)  
 Data Interface  
 Direct Inward Dialing (DID)  
 Direct Inward Line (DIL)  
 Direct Inward System Access  
 E&M Tie Trunks  
 External Alarm Sensors  
 Flexible System Numbering  
 Forced Account Codes  
 Ground Start Trunks  
 ISDN Compatible (PRI and BRI)  
 Key, Hybrid and PABX Configuration  
 Multiple Directory Numbers  
 Multiple MOH Sources  
 NANP Compatible  
 Networking  
 Night Service  
 900 Preamble  
 Open Architecture Interface  
 OPX Capability  
 PBX Compatibility  
 PC Attendant Position  
 PC Interface Card  
 PC-Based ACD Supervisor  
 Port Based Architecture  
 Precise Tone Plan  
 Remote Programming  
 Station Message Detail Recording  
 Station Lock  
 Synchronous Data (64K)  
 TAPI Compatible  
 Three 64K Channels to Each Extension  
 Toll Restriction  
 Trunk Groups  
 Universal Night Answer (UNA)  
 Video Door Box  
 Voice Prompting Messages  
 Windows®-Based Programming

Some features may be optional, available at a future date or not applicable to all systems. The information contained herein is subject to change without notice at the sole discretion of NEC.

### Station Features

Abandoned Call Display-ICM  
 Abbreviated Dialing  
 Alarm Display  
 Alphanumeric Display  
 Analog Port Snap-in Module  
 Automatic Ringdown  
 Background Music  
 Barge In  
 Call Back/Busy/No Answer  
 Call Coverage Keys  
 Call Forwarding  
 Call Forwarding-Off Premise  
 Call Forwarding Follow Me  
 Call Timer  
 Call Waiting/Camp On  
 Classes of Service  
 Conference  
 Conversation Record  
 Data Department Group  
 Data Hot Line  
 Data Port Snap-in Module  
 Database Look Up  
 Delayed Ringing  
 Dial by Name  
 Dial Number Preview  
 Dial Pad Confirmation Tone  
 Direct Station Selection (DSS), 110/24 Button  
 Direct Trunk Access  
 Directed Call Pickup  
 Display Messaging  
 Distinctive Ringing, Tone & Flash Patterns  
 Do Not Disturb  
 Door Chime Box  
 Dual Color LEDs  
 Dual Line Appearance  
 Flash  
 Forced Trunk Disconnect  
 Group Call Pickup  
 Group Hunt  
 Group Listen  
 Handsfree and Monitor  
 Handsfree Answerback/Forced Intercom Ringing  
 Headset (with control)  
 Hold, Exclusive Hold  
 Hotline  
 Intercom  
 Last Number Redial  
 Line Preference  
 Keypad-Originated Data Call  
 Loop Keys  
 Macro Keys  
 Meet Me Conference, Paging and Transfer  
 Memo Dial  
 Message Waiting  
 Microphone Mute  
 Off Hook Signaling  
 Off Hook Voice Announce Snap-in Module  
 Paging-External, Internal  
 Park  
 Prime Line Selection  
 Private Line  
 Programmable Function Keys  
 Pulse to Tone Conversion  
 Repeat Redial  
 Reverse Voice Over

Room Monitor  
 Save Number Dialed  
 Secretary Call, Buzzer and Pickup  
 Selectable Display Messaging  
 Selectable Ring Tones  
 Serial Call  
 Silent Monitor  
 Soft Keys, Interactive  
 Speakerphone (Built-in)  
 Speed Conversion  
 Speed Dial  
 Telemarketing Dial  
 Terminal-Originated Data Call  
 Terminal-Originated Voice Call (Telemarketing Dial)  
 Time and Date Display  
 Time, Date and Station Number Check  
 Toll Restriction Override  
 Transfer  
 Trunk Queuing/Camp On  
 Unsupervised Conference  
 Voice Call Block  
 Voice Over  
 Volume Controls  
 Wall/Desk Stand (Built-in)  
 Warning Tone for Long Conversation

### Hotel/Motel Features

Do Not Disturb  
 DSS Console Monitoring  
 Flexible Numbering Plan  
 Message Waiting  
 PMS Interface  
 Room Status/Room Status Printouts  
 Room to Room Call Restriction  
 Single Digit Dialing  
 Toll Restriction (When Checked In)  
 Wake Up Call

### Voice Mail (NVM-Series)

#### Integration Features

Automatic Call Routing to Mailbox  
 Call Forward to Mailbox  
 Conversation Record  
 Desktop Messaging  
 Fax-On-Demand  
 Message Center  
 Number of Messages Displayed  
 One-Touch Forwarding  
 One-Touch Mailbox Access  
 One-Touch Message Retrieval  
 Park and Page  
 Personal Answering Machine Emulation  
 Return Call (with Caller ID)  
 Transfer to Mailbox

### Voice Announce Unit (VAU)

#### Features

900 Preamble  
 Automated Attendant (Operator Assistance)  
 General Message  
 Park and Page  
 Personal Greetings  
 Time, Date and Extension Number Check  
 VAU Messages (16 max.)  
 Voice Prompting Messages

communications **without** compromise.

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