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## The Evolution of the Strata Product Line

### Introduction

The information in this bulletin is provided as a reference to compare past and present versions of Strata products. It is an update of the previous bulletin SBDK-0028 published December 1, 1998. This information will assist you in determining what features and options can be added to your existing customer base of Strata systems. It will help explain to your Strata customers what capabilities they have in their systems compared to current products, and what they gain when upgrading from older to newer Strata systems.

This information will also enable you to show prospective customers the ongoing progression of enhancements and new product development within the Strata product line. This is proof of Toshiba's commitment to an evolving product line strategy, keeping Strata products up with developing trends and new requirements in the hybrid/key system industry.

### History and Background

The Strata product line has a long and rich history. It started back in 1978 with the Strata III, Toshiba's first electronic stored program key system. It was one of the first "skinny wire" systems on the market and led the way to the development of future Strata products.

The Strata VI first appeared in 1982 and was Toshiba's first microprocessor-based electronic key system. It set the stage for development of a family of Strata systems, with the later introduction of the Strata S, XII, and XX in 1983.

In 1986, the Strata "e" release brought additional capabilities to the Strata S, VI, XII, and XX systems. In 1988, Release 2 brought more new capabilities to the Strata Se, VIe, XIIe, and XXe, making Strata one of the most feature rich families of hybrid/key systems on the market.

In the late 1980's, digital technology began to enter the key systems market. Toshiba's first digital key telephone system was the Strata DK in 1989. The DK56 and DK96 replaced the XIIe and XXe in the Strata product line and set the standard architecture for our current digital product line.

Strata DK Release 2 brought many important enhancements to the DK56 and DK96 systems in 1990. At that same time, Toshiba also introduced the DK24, bringing digital technology farther down the size range of the Strata product line. The DK24 also filled an important need for a system sized between the 6x16 Strata VIe and the Strata DK56.

In 1991, Strata DK Release 3 introduced Strata DK24/56/96 systems to digital telephones and data switching, both for the first time. Then, in 1992, Release 4 brought even more new capabilities to

DK24/56/96 systems, which included new and improved digital telephones with LCD feature prompting and soft key operation.

In November 1992, Toshiba introduced one of the most exciting Strata products to hit the hybrid/key systems marketplace in some time – the DK16. The DK16 replaced the Strata VIe in the Strata product line, bringing digital technology to small system users. With all the features and capabilities of larger Strata DK systems, the DK16 provided sophisticated functionality rarely found in a small hybrid/key system.

The Strata DK8 followed closely behind the DK16 in time, completing the transition of entire Strata product line to digital technology from end to end. With its introduction in April 1993, the DK8 replaced the Se in the Strata product line, bringing powerful features, rarely found in systems of this size, to small system users.

In June 1993, Toshiba introduced another milestone product to the hybrid/key systems marketplace—the Strata DK280 Modular Digital Telephone System. The DK280 replaced the DK24, DK56, and DK96 in the Strata product line. This important new product provided many advanced new features, significantly expanded the size of Strata systems, and made modular growth and migration more cost effective than ever before.

In June 1994, Toshiba introduced the Release 2 version of the Strata DK280. Release 2 provided ACD/MIS, Attendant Console, SMDI voice mail interface, and Pooled Line Key enhancements. This provides the most complete call answering solution and flexibility available today, and opens the door to many new call center application opportunities.

In 1996, Toshiba introduced the Release 3.0 version of the Strata DK280. Release 3.0 provided Multiple DNs, Caller ID/ANI, DNIS, and other important advanced hybrid features. At the same time, Computer Telephony Integration TAPI capabilities became available for all Strata DK systems, opening the door to many exciting new custom PC-driven applications. Later in the year, the DK16e replaced the DK16 adding Caller ID and many new enhancements. Also in 1996, the digital Cordless Telephone was introduced.

In 1997, the entire Strata DK product line was updated. The DK14, DK40 and DK424 replaced the DK8, DK16e, and DK280 thereby expanding system size and adding feature enhancements. Release 3.1 added more new features to the DK424. The PC Attendant Console improved operator functionality, Call Center Viewer provided more ACD display options, and StrataLink provided important CTI enhancements.

In 1998, new releases included the PC Digital Telephone, enhancements to StrataLink CTI capabilities, enhancements to the PC Attendant Console, the Strata AirLink Wireless Telephone System, and the Digital Single Line Telephone. The DK424 Release 3.2 added feature improvements and the DK424 Release 4.0 added ISDN PRI capabilities and other new feature enhancements.

In 1999, the Strata DK40i added ISDN BRI capabilities to our most popular small system and Release 4.1 software added ISDN BRI-S/T interface capabilities to the Strata DK424. Other new product releases included the Toshiba Ultimate Communicator, Strata AirLink Wireless integrated interface version, Voice over IP gateway products, Insight DK MIS reporting packages, new HMIS software packaging options and StrataControl end-user administrative software.

As you can see, we're all very busy keeping the Strata product line the best in the key/hybrid industry.

## Strata Product Introduction Dates

Date		Model					
1978						III	
1982			VI				
1983		S			XII	XX	
1986	June	Se	Vle		XIle	XXe	
1988	March	Se R2	Vle R2		XIle R2	XXe R2	
1989	May				DK56	DK96	
1990	July			DK24	DK56 R2	DK96 R2	
1991	March			DK24 R3	DK56 R3	DK96 R3	
1992	September			DK24 R4	DK56 R4	DK96 R4	
	November		DK16				
1993	April	DK8					
	June			DK280-A	DK280-B	DK280-C/D	
1994	June				DK280-B R2	DK280 C/D R2	
1996	March			DK280-A R3.0	DK280-BA/BB R3.0	DK280-C/D R3.0	
	December		DK16e				
1997	September		DK40				
	December		DK14				
	February			DK424-A R3.1	DK424-BA/BB R3.1	DK424-C/D R3.1	
	July						DK424-E/F R3.1
1998	May			DK424-A R3.2	DK424-BA/BB R3.2	DK424-C/D R3.2	DK424-E/F R3.2
	July						DK424-E/F R4.0
	November			DK424-A R4.0	DK424-BA/BB R4.0	DK424-C/D R4.0	
1999	March			DK424-A R4.1	DK424-BA/BB R4.1	DK424-C/D R4.1	DK424-E/F R4.1
	May		DK40i				

On the following pages capacities, features, and capabilities are listed for all of the above systems.

## Small System - Hardware Capacities

	S	Se		DK8	DK14	VI	Vle		DK16	DK16e	DK40	DK40i
	R1	R1	R2	R1	R1	R1	R1	R2	R1	R1	R1	R1
CO Lines	3	3	3	4	4	6	6	6	8	8	12	12
Stations	8	8	8	10	10	16	16	16	20	28	28	28
Intercom Paths	1	1	2	Non-blocking		2	2	4	Non-blocking			
Door Phones	N/A	3	6	6	6	N/A	3	6	6	9	9	9
Door Locks	N/A	1	2	2	2	N/A	1	2	3	3	3	3
Electronic Phones	8	8	8	N/A	N/A	16	16	16	8	16	16	16
Digital Phones	N/A	N/A	N/A	8	8	N/A	N/A	N/A	16	28	28	28
Standard Phones	N/A	N/A	4	2	2	N/A	N/A	8	12	20	20	20
Personal Message EKTs	N/A	N/A	4	8	8	N/A	N/A	6	16	16	16	16
Attendant Consoles	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DSS Consoles	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	3	3	3
Add-on Modules	N/A	N/A	N/A	8	8	N/A	N/A	N/A	12	12	12	
Integrated DIUs	N/A	N/A	N/A	8	8	N/A	N/A	N/A	16	24	24	12
Stand-alone DIUs	N/A	N/A	N/A	7	7	N/A	N/A	N/A	15	24	24	24
PFT Telephones	3	3	3	1	1	N/A	N/A	N/A	1	1	1	1
DID Lines	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	12	12
Off Premises Extensions	N/A	N/A	4	2	2	2	2	8	12	12	12	12
Off Premises Lines	3	3	3	N/A	N/A	6	6	6	N/A	N/A	N/A	N/A
Tie Lines	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	12	12
PRI Interfaces	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BRI S/T Interfaces	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2
BRI U Interfaces	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Small Systems - Software Capacities

	S	Se		DK8	DK14	VI	Vle		DK16	DK16e	DK40	DK40i
	R1	R1	R2	R1	R1	R1	R1	R2	R1	R1	R1	R1
COS Toll Restriction Levels	4	4	4	4	4	4	4	4	4	4	4	4
Call Pickup CO Line Groups	N/A	1	1	2	2	N/A	2	2	2	2	2	2
Call Pickup Station Groups	N/A	N/A	N/A	N/A	8	N/A	N/A	N/A	N/A	20	20	20
CO Line Groups	N/A	4	4	4	4	4	4	8	8	8	8	8
Call Park Orbits	N/A	N/A	N/A	N/A	20	N/A	N/A	N/A	N/A	20	20	20
Distributed Hunt Groups	N/A	N/A	N/A	N/A	16	N/A	N/A	N/A	N/A	16	16	16
ACD Groups	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Caller ID Abandoned Call Numbers	N/A	N/A	N/A	N/A	200	N/A	N/A	N/A	N/A	200	200	200
DNIS Numbers	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	200	200	200
Primary (Multiple) DN's	N/A	N/A	N/A	N/A	10	N/A	N/A	N/A	N/A	28	28	28
Phantom DN's	N/A	N/A	N/A	N/A	10	N/A	N/A	N/A	N/A	28	28	28
Conference Parties	5	5	5	4/3	4/3	5	5	5	4	4	4	4
Simultaneous Conferences	2	2	2	2	2	2	2	2	4	4	4	4
Trunk-to-Trunk Connections	N/A	N/A	1	2	2	N/A	N/A	2	4	4	4	4
System Speed Dial Numbers	40	40	40	40	40	40	40	40	40	40	40	40
Station Speed Dial Numbers	20	20	40	40	40	40	40	40	40	40	40	40
Speed Dial Digits	16	16	16	20	20	16	16	16	20	20	20	20
Speed Dial Digits Chained	29	29	29	37	37	29	29	29	37	37	37	37
Verified Account Codes	N/A	N/A	N/A	100	100	N/A	N/A	N/A	300	300	300	300

## Small Systems - System Features

	S	Se		DK8	DK14	VI	Vle		DK16	DK16e	DK40	DK40i
	R1	R1	R2	R1	R1	R1	R1	R2	R1	R1	R1	R1
Account Codes-Voluntary	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Account Codes-Forced	N/A	N/A	Std	Std	Std	N/A	Std	Std	Std	Std	Std	Std
Account Codes-Verified	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std	Std
Alarm Sensor	N/A	Opt	Opt	Opt	Opt	N/A	Opt	Opt	Opt	Opt	Opt	Opt
Alternate Answer Point	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Amplified Conference Interface	N/A	N/A	Opt	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt
Automated Attendant Built-in	N/A	N/A	N/A	Opt	Opt	N/A	N/A	N/A	Opt	Opt	Opt	Opt
ACD/MIS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Automatic Recall (Hold, Transfer)	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Automatic Release of Hold	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Automatic Station Relocation	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Auxiliary Device Interface	N/A	N/A	Opt	Opt	Opt	N/A	N/A	Opt	Opt	Opt	Opt	Opt
Automatic Number Identification (ANI)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Background Music/MOH Interface	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Background Music/MOH Sep. Interface	N/A	N/A	N/A	Opt	Opt	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Background Music through Phones	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Battery Backup Interface-System	Opt	Opt	Opt	Std	Std	Opt	Opt	Opt	Std	Std	Std	Std
Battery Backup-Memory	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Busy Station Transfer/Ringing	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std	Std
Call Waiting with Camp-on	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std	Std
Caller Identification	N/A	N/A	N/A	N/A	Opt	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Centrex/PBX Feature Buttons	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Centrex Ringing Repeat	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Class of Service-Station	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Class of Service-Travelling	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std	Std
CO Line Queuing	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Computer Telephony Integration-TAPI	N/A	N/A	N/A	N/A	Opt	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Conference	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Credit Card Calling ("0+" Dialing)	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std	Std
Delayed Ringing (DNIS)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Direct Inward Dialing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Direct Inward Station Calling	N/A	N/A	N/A	Opt	Opt	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Direct Inward System Access	N/A	N/A	N/A	Opt	Opt	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Distinctive CO/Intercom Ringing	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Distinctive Station Ringing	N/A	N/A	N/A	2 tones	3 tones	N/A	N/A	N/A	2 tones	3 tones	3 tones	3 tones
Door Lock Control	N/A	Opt	Opt	Opt	Opt	N/A	Opt	Opt	Opt	Opt	Opt	Opt
DTMF and Dial Pulse Compatible	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
DTMF Signal Time Continuous	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std	Std
DTMF Signal Time Selectable (160/80)	N/A	Std	Std	Std	Std	N/A	Std	Std	Std	Std	Std	Std
Dual FCC Registration (KF/MF)	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std

## Small Systems - System Features *(continued)*

	S	Se		DK8	DK14	VI	Vle		DK16	DK16e	DK40	DK40i
	R1	R1	R2	R1	R1	R1	R1	R2	R1	R1	R1	R1
E911 External Interface	N/A	N/A	N/A	N/A	Opt	N/A	N/A	N/A	N/A	Opt	Opt	Opt
E911 Integrated Interface	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
End-to-end Signal Tones	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Flash Timing Programmable	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Flexible Button Assignment	N/A	Std	Std	Std	Std	N/A	Std	Std	Std	Std	Std	Std
Flexible Intercom Numbering	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Flexible Port Assignment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ex Cab	Ex Cab	Ex Cab	Ex Cab
Flexible Line Ringing Assignment	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Ground Start Lines	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Hotline/Emergency Ringdown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Intercom Hold	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std	Std
Intercom Transfer	N/A	N/A	N/A	N/A	Std	N/A	N/A	N/A	N/A	Std	Std	Std
ISDN-PRI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ISDN-BRI S/T	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ISDN-BRI U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Least Cost Routing	N/A	N/A	N/A	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Live System Programming	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Message Waiting-DKT/EKT	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Message Waiting-2500 Set	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Music On Hold Interface	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Multiple Directory Numbers	N/A	N/A	N/A	N/A	Std	N/A	N/A	N/A	N/A	Std	Std	Std
Night Service	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Night Ringing Answer Code	N/A	Std	Std	Std	Std	N/A	Std	Std	Std	Std	Std	Std
Night Ring Over External Page	N/A	N/A	Std	Std	Std	N/A	Std	Std	Std	Std	Std	Std
Night Ring Over External Page Zones	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std
Non-blocking Dialing	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Non-blocking Intercom	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std	Std
Off Premises Extensions	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Outgoing Call Restriction	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Paging-Internal EKT/DKT All Call	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Paging-Internal EKT/DKT Group	4	4	4	4	4	4	4	4	4	4	4	4
Paging-External Interface	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Paging-External Zone (4 zones)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Page Pickup (Meet-me Page)	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std	Std
Pooled Line Groups	4	4	4	4	4	4	4	8	8	8	8	8
Power Failure Transfer	Opt	Opt	Opt	Std	Std	N/A	N/A	N/A	Std	Std	Std	Std
Privacy/Non Privacy Option	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Relay Service	N/A	N/A	N/A	Opt	Opt	Std	Std	Std	Opt	Opt	Opt	Opt
Remote Maintenance/Administration	N/A	N/A	Opt	Opt	Opt	N/A	N/A	Opt	Opt	Opt	Opt	Opt
Station Hunting-Serial	N/A	N/A	Std	Std	Std	N/A	Std	Std	Std	Std	Std	Std
Station Hunting-Distributed	N/A	N/A	N/A	N/A	Std	N/A	N/A	N/A	N/A	Std	Std	Std
SMDR	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
System Speed Dialing	40	40	40	40	40	40	40	40	40	40	40	40
T1 Interface	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
T1 Flash on DID/Ground Start	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tenant Service	N/A	N/A	N/A	2	2	N/A	N/A	N/A	2	2	2	2
Tie Line Transfer Recall	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std

## Small Systems - System Features *(continued)*

	S	Se		DK8	DK14	VI	Vle		DK16	DK16e	DK40	DK40i
	R1	R1	R2	R1	R1	R1	R1	R2	R1	R1	R1	R1
Toll Restriction	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Toll Restriction Override codes	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Toll Restriction Speed Dial Override	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Transfer Privacy	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Unsupervised Conference from EKT	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Unsuper. Conf. from Standard Phone	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Upload/Download Programming	N/A	N/A	N/A	N/A	Opt	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Voice Mail DTMF Integration	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Voice Mail SMDI Integration	N/A	N/A	N/A	N/A	Std	N/A	N/A	N/A	N/A	Std	Std	Std
Voice Mail Control in Conference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Voice or Tone Signaling Selectable	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
1A2 Interface	N/A	N/A	Opt	N/A	N/A	N/A	N/A	Opt	N/A	N/A	N/A	N/A

## Small Systems - LCD Features

	S	Se		DK8	DK14	VI	Vle		DK16	DK16e	DK40	DK40i
	R1	R1	R2	R1	R1	R1	R1	R2	R1	R1	R1	R1
Alphanumeric System Messages	N/A	N/A	40	40	40	N/A	N/A	40	40	40	40	40
Alphanumeric Personal Messages	N/A	N/A	10	10	10	N/A	N/A	10	10	10	10	10
Absence Messaging	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Busy Station Messaging	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Group Station Messaging	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Auto Callback Number Display	N/A	Std	Std	Std	Std	N/A	Std	Std	Std	Std	Std	Std
BLF Indication	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Calendar/Clock	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Call Duration	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Forward Source/Destination	N/A	Std	Std	Std	Std	N/A	Std	Std	Std	Std	Std	Std
ANI/DNIS Display	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Caller ID Display	N/A	N/A	N/A	N/A	Opt	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Calling/Called Number Intercom/DN	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
CO Line ID Incoming/Outgoing	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Dial Input Verification	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Feature Activation Display	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Feature Prompting with Soft Keys	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std	Std
Intercom User Name Display	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std	Std
Speed Dial Directory Dialing	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Speed Dial Directory Name Scroll	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std
Timed Reminder	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std	Std

# Small Systems - Station Features

	S	Se		DK8	DK14	VI	Vle		DK16	DK16e	DK40
	R1	R1	R2	R1	R1	R1	R1	R2	R1	R1	R1
Alert Signaling (Buzz Key)	N/A	N/A	N/A	N/A	Std	N/A	N/A	N/A	N/A	Std	Std
Auto Busy Redial	N/A	N/A	N/A	Opt	Opt	N/A	N/A	N/A	Opt	Opt	Opt
Auto Callback Intercom	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Auto Dial Speed Dial Buttons	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Auto Dial DSS Buttons	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Automatic Hold	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std
Auto Off-hook Selection	N/A	Std	Std	Std	Std	N/A	Std	Std	Std	Std	Std
Busy Override Tone	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Forward-All Calls	N/A	N/A	Std	Std	Std	N/A	Std	Std	Std	Std	Std
Call Forward-Busy	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std
Call Forward-No Answer	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std
Call Forward-Busy/No Answer	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std
Call Forward-Fixed	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std
Call Forward-External	N/A	N/A	N/A	N/A	Std	N/A	N/A	N/A	N/A	Std	Std
Call Forward-Remote Change	N/A	N/A	N/A	N/A	Std	N/A	N/A	N/A	N/A	Std	Std
Call Forward Override	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Park	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std
Call Park Orbits	N/A	N/A	N/A	N/A	Std	N/A	N/A	N/A	N/A	Std	Std
Call Pickup-Directed Station	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Pickup-Directory Number	N/A	N/A	N/A	N/A	Std	N/A	N/A	N/A	N/A	Std	Std
Call Pickup-Station Group	N/A	N/A	N/A	N/A	20	N/A	N/A	N/A	N/A	20	20
Call Pickup-Ringing CO Line	N/A	Std	Std	Std	Std	N/A	Std	Std	Std	Std	Std
Call Pickup-Ringing CO Group	N/A	1	1	2	2	N/A	2	2	2	2	2
Call Pickup-Holding/Parked	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std
Call Transfer Immediate	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Transfer with Announcement	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Transfer with Camp-on	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Camp-on Tone I-hold/Exclusive Hold	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DP,DTMF Mode Change (Tone Button)	N/A	Std	Std	Std	Std	N/A	Std	Std	Std	Std	Std
Do Not Disturb	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Do Not Disturb Override	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Exclusive Hold	N/A	Std	Std	Std	Std	N/A	Std	Std	Std	Std	Std
Executive Override (break-in)	N/A	Std	Std	Std	Std	N/A	Std	Std	Std	Std	Std
Flash Button	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Handsfree Answerback on Intercom	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Handset Volume Control	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std
Headset Compatible	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Hearing Aid Compatible Telephones	Opt	Opt	Std	Std	Std	Std	Std	Std	Std	Std	Std
Line in Use (I-Use)	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Line on Hold (I-Hold)	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Microphone Cut-off Button (Mute)	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Off-Hook Call Announce - Speaker	N/A	N/A	Opt	Opt	Opt	N/A	N/A	Opt	Opt	Opt	Opt
Off-Hook Call Announce - Handset	N/A	N/A	N/A	N/A	Std	N/A	N/A	N/A	N/A	Std	Std
On-hook Dialing	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Pooled Line Keys	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std
Privacy Button	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std
Privacy Release Button	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std
Private CO Lines	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Release Key	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std



## Small Systems - Station Features *(continued)*

	S	Se		DK8	DK14	VI	Vle		DK16	DK16e	DK40
	R1	R1	R2	R1	R1	R1	R1	R2	R1	R1	R1
Release/Answer Key	N/A	N/A	N/A	N/A	Std	N/A	N/A	N/A	N/A	Std	Std
Remote Retrieval of Held Calls	N/A	N/A	Std	Std	Std	N/A	N/A	Std	Std	Std	Std
Repeat Last Number Dialed	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Ringing Line Preference	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Saved Number Redial	N/A	Std	Std	Std	Std	N/A	Std	Std	Std	Std	Std
Speakerphone	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Station Speed Dialing	20	20	40	40	40	40	40	40	40	40	40
Two Color LEDs	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std
User Programmable Feature Buttons	N/A	N/A	N/A	Std	Std	N/A	N/A	N/A	Std	Std	Std

## Small Systems - Data Features

	S	Se		DK8	DK14	VI	Vle		DK16	DK16e	DK40	DK40i
	R1	R1	R2	R1	R1	R1	R1	R2	R1	R1	R1	R1
Data Switching (DIU)	N/A	N/A	N/A	Opt	Opt	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Data Key on DKT	N/A	N/A	N/A	Opt	Opt	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Data Release Key on DKT	N/A	N/A	N/A	Opt	Opt	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Keyboard Dialing Data & Voice Calls	N/A	N/A	N/A	Opt	Opt	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Modem Pooling	N/A	N/A	N/A	Opt	Opt	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Printer & Peripheral Sharing	N/A	N/A	N/A	Opt	Opt	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Security Groups	N/A	N/A	N/A	4	4	N/A	N/A	N/A	4	4	4	4
TAPI Compatible	N/A	N/A	N/A	Opt	Opt	N/A	N/A	N/A	Opt	Opt	Opt	Opt

# Medium Systems - Hardware Capacities

	XII		XIIe		XX		XXe		DK24			DK56		DK96	
	R1	R1	R2	R1	R1	R2	PCTUS	PCTU2	R3&R4	R1&R2	R3&R4	R1&R2	R3&R4		
<b>CO Lines</b>	12	12	12	21	21	21	16*	16*	16*	20*	20*	36*	36*		
<b>Stations</b>	32	32	32	56	56	56	24*	32*	32*	56*	56*	96*	96*		
<b>Intercom Paths</b>	4	4	8	6	6	8	(Unlimited Non-blocking Digital Intercom)								
<b>Door Phones</b>	N/A	3	12	N/A	3	12	9	12	12	12	12	12	12		
<b>Door Locks</b>	N/A	1	4	N/A	1	4	5	5	5	5	5	5	5		
<b>Electronic Phones</b>	32	32	32	56	56	56	24	32	32	56	56	96	96		
<b>Digital Phones</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32	N/A	56	N/A	96		
<b>Standard Phones</b>	N/A	N/A	24	N/A	N/A	48	24	32	32	56	56	96	96		
<b>Personal Message EKTs</b>	N/A	16	16	N/A	16	16	6	16	16	16	16	16	16		
<b>Attendant Consoles</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
<b>DSS Consoles</b>	2	2	2	2	2	2	3	4	4	4	4	4	4		
<b>Add-on Modules</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
<b>Integrated DIUs</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	N/A	53	N/A	70		
<b>Stand-alone DIUs</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32	N/A	55	N/A	70		
<b>PFT Telephones</b>	N/A	N/A	N/A	N/A	N/A	N/A	16	16	16	24	40	40			
<b>DID Lines</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
<b>Off Premises Extensions</b>	4	4	6	6	6	6	24	32	32	56	56	96	96		
<b>Off Premises Lines</b>	12	12	12	21	21	21	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
<b>Tie Lines</b>	N/A	2	2	N/A	4	4	4	4	4	8	8	12	12		
<b>T1 Interfaces</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
<b>PRI Interfaces</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
<b>BRI S/T Interfaces</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
<b>BRI U Interfaces</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

\* With the universal slot design, the Strata DK maximum line and station capacities cannot be achieved simultaneously.

Strata DK configurations vary from:

DK24; 16 x 16 to 8 x 32

DK56; 20 x 24 to 4 x 56

DK96; 36 x 40 to 8 x 96

## Medium Systems - Software Capacities

	XII	XIIe		XX	XXe		DK24			DK56		DK96	
	R1	R1	R2	R1	R1	R2	PCTUS	PCTU2	R3&R4	R1&R2	R3&R4	R1&R2	R3&R4
<b>COS Toll Restriction Levels</b>	4	4	4	4	4	4	4	4	4	4	4	4	4
<b>Call Pickup CO Line Groups</b>	N/A	2	N/A2	2	2	2	2	2	2	2	2	2	2
<b>Call Pickup Station Groups</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>CO Line Groups</b>	4	4	8	4	4	8	8	8	8	8	8	8	8
<b>Call Park Orbits</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Distributed Hunt Groups</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>ACD Groups</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Caller ID Abandoned Call Numbers</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>DNIS Numbers</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Primary (Multiple) DNs</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Phantom DNs</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Conference Parties</b>	5	5	5	5	5	5	4	4	4	4	4	4	4
<b>Simultaneous Conferences</b>	3	3	3	3	3	3	8	8	8	8	8	8	8
<b>Trunk-to-Trunk Connections</b>	N/A	6	6	N/A	6	6	4	10	10	10	10	10	10
<b>System Speed Dial Numbers</b>	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>Station Speed Dial Numbers</b>	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>Speed Dial Digits</b>	16	16	16	16	16	16	20	20	20	20	20	20	20
<b>Speed Dial Digits Chained</b>	29	29	29	29	29	29	37	37	37	37	37	37	37
<b>Verified Account Codes</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	300	N/A	300	N/A	300

# Large Systems - Hardware Capacities

	DK280 R1			DK280 R2&3			DK424 R3				DK424 R4			
	RCTUA	RCTUB	RCTUC/D	RCTUA	RCTUB	RCTUC/D	RCTUA	RCTUBA/BB	RCTUC/D	RCTUE/F	RCTUA	RCTUBA/BB	RCTUC/D	RCTUE/F
<b>CO Lines</b>	16	48*	144*	16	48*	144*	16	48*	144*	200*	16	48*	144*	200*
<b>Stations</b>	32	80*	240*	32	80*	240*	32	80*	240*	336*	32	80*	240*	336*
<b>Intercom Paths</b>	(Unlimited Non-blocking Digital Intercom)													
<b>Door Phones</b>	9	12	12	9	12	12	9	12	12	12	9	12	12	12
<b>Door Locks</b>	4	5	5	4	5	5	4	5	5	5	4	5	5	5
<b>Electronic Phones</b>	32	80	240	32	80	240	32	80	240	336	32	80	240	336
<b>Digital Phones</b>	32	80	240	32	80	240	32	80	240	336	32	80	240	336
<b>Standard Phones</b>	24	72	232	24	72	232	24	72	232	328	24	72	232	328
<b>Personal Message EKTs</b>	16	32	96	16	32	96	16	32	96	96	16	32	96	96
<b>Attendant Consoles</b>	N/A	N/A	N/A	N/A	2	4	N/A	2	4	4	N/A	2	4	4
<b>DSS Consoles</b>	3	4	8	3	4	8	3	4	8	8	3	4	8	8
<b>Add-on Modules</b>	12	40	120	12	40	120	12	40	120	200	12	40	120	200
<b>Integrated DIUs</b>	24	48	112	24	48	112	32	80	144	200	32	80	144	200
<b>Stand-alone DIUs</b>	24	72	159	24	72	159	31	79	160	208	31	79	160	208
<b>PFT Telephones</b>	24	72	232	24	72	232	24	72	232	328	24	72	232	328
<b>DID Lines</b>	16	40	136	13	40	136	16	40	136	200	16	40	136	200
<b>Off Premises Extensions</b>	24	72	232	24	72	232	24	72	232	328	24	72	232	328
<b>Off Premises Lines</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Tie Lines</b>	16	40	136	16	40	136	16	40	136	200	16	40	136	200
<b>T1 Interfaces</b>	N/A	2	6	N/A	2	6	N/A	2	6	8	N/A	2	6	8
<b>PRI Interfaces</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	6	8
<b>BRI S/T Interfaces</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1 (R4.1)	2 (R4.1)		
<b>BRI U Interfaces</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1 (R4.2)	2 (R4.2)		

\* With the universal slot design, the Strata DK maximum line and station capacities cannot be achieved simultaneously.  
 Strata DK configurations vary from:  
 DK280 and DK424 RCTU-A; 16 x 32  
 DK280 RCTU-B and DK424 RCTUBA/BB; 48 x 40 to 8 x 80  
 DK280 and DK424 RCTU-C/D; 144 x 136 to 40 x 240  
 DK424 RCTU-E/F; 200 x 224 to 84 x 336

## Large Systems - Software Capacities

	DK280 R1			DK280 R2&3			DK424 R3				DK424 R4			
	RCTUA	RCTUB	RCTUC/D	RCTUA	RCTUB	RCTUC/D	RCTUA	RCTUBA/BB	RCTUC/D	RCTUE/F	RCTUA	RCTUBA/BB	RCTUC/D	RCTUE/F
<b>COS Toll Restriction Levels</b>	4	4	8	4	4	8	4	4	8	8	4	4	8	8
<b>Call Pickup CO Line Groups</b>	2	2	4	2	2	4	2	2	4	4	2	2	4	4
<b>Call Pickup Station Groups</b>	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>CO Line Groups</b>	8	8	16	8	8	16	8	8	16	16	8	8	16	16
<b>Call Park Orbits</b>	N/A	N/A	N/A	N/A	N/A	N/A	20	20	20	20	20	20	20	20
<b>Distributed Hunt Groups</b>	N/A	N/A	N/A	N/A	N/A	N/A	16 (R3.1)				16	16	16	16
<b>ACD Groups</b>	N/A	N/A	N/A	N/A	8	16	N/A	8	16	16	N/A	8	16	16
<b>Caller ID Abandoned Call Numbers</b>	N/A	N/A	N/A	N/A	N/A	N/A	100	100	100	100	100	100	100	100
<b>DNIS Numbers</b>	N/A	N/A	N/A	N/A	N/A	N/A	200	350	500	500	200	350	500	500
<b>Primary (Multiple) DNs</b>	N/A	N/A	N/A	N/A	N/A	N/A	32	80	240	336	32	80	240	336
<b>Phantom DNs</b>	N/A	N/A	N/A	N/A	N/A	N/A	32	80	240	336	32	80	240	336
<b>Conference Parties</b>	4	4	4	4	4	4	4	4	4	4	4	4	4	4
<b>Simultaneous Conferences</b>	3	7	7	3	7	7	3	7	7	14	3	7	7	14
<b>Trunk-to-Trunk Connections</b>	10	10	10	10	10	10	4	10	10	20	4	10	10	20
<b>System Speed Dial Numbers</b>	40	100	100	40	100	100	40	100	100	800	40	100	100	800
<b>Station Speed Dial Numbers</b>	40	40	40	40	40	40	40	40	40	40	40	40	40	40
<b>Speed Dial Digits</b>	20	20	20	20	20	20	20	20	20	20	20	20	20	20
<b>Speed Dial Digits Chained</b>	37	37	37	37	37	37	37	37	37	37	37	37	37	37
<b>Verified Account Codes</b>	300	300	300	300	300	300	300	300	300	300	300	300	300	300

# Medium/Large Systems - System Features

	XII/XX	XIIe/XXe		DK56/96		DK24/56/96		DK280			DK424	
	R1	R1	R2	R1	R2	R3	R4	R1	R2	R3	R3	R4
Account Codes-Voluntary	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Account Codes-Forced	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Account Codes-Verified	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std
Alarm Sensor	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Alternate Answer Point	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Amplified Conference Interface	N/A	Opt	Opt	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Automated Attendant Built-in	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt
ACD/MIS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Automatic Number Identification (ANI)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt
Automatic Recall (Hold, Transfer)	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Automatic Release of Hold	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Automatic Station Relocation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std
Auxiliary Device Interface	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Background Music/MOH Interface	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Background Music/MOH Sep. Interface	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Background Music through Phones	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Battery Backup Interface-System	Opt	Opt	Opt	Std	Std	Std	Std	Std	Std	Std	Std	Std
Battery Backup-Memory	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Busy Station Transfer/Ringing	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std
Call Waiting with Camp-on	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Caller Identification	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Centrex/PBX Feature Buttons	N/A	Opt	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Centrex Ringing Repeat	N/A	Opt	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Class of Service-Station	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Class of Service-Travelling	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std
CO Line Queuing	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Computer Telephony Integration-TAPI	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std
Conference	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Credit Card Calling ("0+" Dialing)	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std
Delayed Ringing	N/A	Opt	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Dialed Number ID Service (DNIS)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Direct Inward Dialing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt
Direct Inward Station Calling	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Direct Inward System Access	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Distinctive CO/Intercom Ringing	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Distinctive Station Ringing	N/A	N/A	N/A	2-tones	2-tones	2-tones	2-tones	3-tones	3-tones	3-tones	3-tones	3-tones
Door Lock Control	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
DTMF and Dial Pulse Compatible	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
DTMF Signal Time Continuous	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std
DTMF Signal Time Selectable (160/80)	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Dual FCC Registration (KF/MF)	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
E911 External Interface	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	R3.1	Std	Std
E911 Integrated Interface	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt
End-to-end Signal Tones	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Flash Timing Programmable	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Flexible Button Assignment	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Flexible Intercom Numbering	N/A	Opt	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Flexible Port Assignment	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std
Flexible Line Ringing Assignment	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std

## Medium/Large Systems - System Features *(continued)*

	XII/XX	XIIe/XXe		DK56/96		DK24/56/96		DK280			DK424	
	R1	R1	R2	R1	R2	R3	R4	R1	R2	R3	R3	R4
Ground Start Lines	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt
Hotline/Emergency Ringdown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std
Intercom Hold	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std
Intercom Transfer	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std
ISDN-PRI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt
ISDN-BRI S/T	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	R4.1
ISDN-BRI U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	R4.2
Least Cost Routing	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Live System Programming	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Message Waiting-DKT/EKT	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Message Waiting-2500 Set	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std
Multiple Directory Numbers	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std
Music On Hold Interface	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Night Service	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Night Ringing Answer Code	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Night Ring Over External Page	N/A	Std	Std	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Night Ring Over External Page Zones	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Non-blocking Dialing	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Non-blocking Intercom	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std
Off Premises Extensions	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Outgoing Call Restriction	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Paging-Internal EKT/DKT All Call	Std	Std	Std	Std	Std	Std	Std	Max 120	Max 120	Max 120	Max 120	Max 120
Paging-Internal EKT/DKT Group	4	4	4	4	4	4	4	4 or 8	4 or 8	4 or 8	4 or 8	4 or 8
Paging-External Interface	Std	Std	Std	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Paging-External Zone (4 zones)	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt	4 or 8	4 or 8
Page Pickup (Meet-me Page)	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std
Pooled Line Groups	4	4	8	8	8	8	8	8 or 16	8 or 16	8 or 16	8 or 16	8 or 16
Power Failure Transfer	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Privacy/Non Privacy Option	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Relay Service	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Remote Maintenance/Administration	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Station Hunting-Distributed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	R3.1	Std	Std
Station Hunting-Serial	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
SMDR	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
System Speed Dialing	40	40	40	40	40	40	40	40/100	40/100	40/100	40/100/ 800	40/100/ 800
T1 Interface	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt
T1 Flash on DID/Ground Start	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt
Tenant Service	2	2	2	2	2	2	2	2 or 4	2 or 4	2 or 4	2 or 4	2 or 4
Tie Line Transfer Recall	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std
Toll Restriction	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Toll Restriction Override codes	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Toll Restriction Speed Dial Override	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Transfer Privacy	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Unsupervised Conference from EKT	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Unsuper. Conf. from Standard Phone	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	R3.2	R3.2	Std
Upload/Download Programming	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt
Voice Mail DTMF Integration	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Voice Mail SMDI Integration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	B or C/D	Std	Std	Std
Voice Mail Control in Conference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	R3.2	R3.2	Std
Voice or Tone Signaling Selectable	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std

## Medium/Large Systems - System Features *(continued)*

	XII/XX	XIIe/XXe		DK56/96		DK24/56/96		DK280			DK424	
	R1	R1	R2	R1	R2	R3	R4	R1	R2	R3	R3	R4
1A2 Interface	N/A	Opt	Opt	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Medium/Large Systems - LCD Features

	XII/XX	XIIe/XXe		DK56/96		DK24/56/96		DK280			DK424	
	R1	R1	R2	R1	R2	R3	R4	R1	R2	R3	R3	R4
Alphanumeric System Messages	N/A	N/A	40	40	40	40	40	40	40	40	40	40
Alphanumeric Personal Messages	N/A	N/A	10	10	10	10	10	10	10	10	10	10
Absence Messaging	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Busy Station Messaging	N/A	N/A	Std	N/A	Std	Std	Std	Std	Std	Std	Std	Std
Group Station Messaging	N/A	N/A	Std	Std	N/A	Std	Std	Std	Std	Std	Std	Std
Auto Callback Number Display	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
BLF Indication	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Calendar/Clock	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Duration	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Forward Source/Destination	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
ANI/DNIS Display	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std
Caller ID Display	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt
Calling/Called Number Intercom/DN	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
CO Line ID Incoming/Outgoing	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Dial Input Verification	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Feature Activation Display	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Feature Prompting with Soft Keys	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std
Intercom User Name Display	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std
Speed Dial Directory Dialing	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Speed Dial Directory Name Scroll	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Timed Reminder	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std



## Medium/Large Systems - Station Features

	XII/XX	XIIe/XXe		DK56/96		DK24/56/96		DK280			DK424	
	R1	R1	R2	R1	R2	R3	R4	R1	R2	R3	R3	R4
Alert Signaling (Buzz Key)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std
Auto Busy Redial	N/A	N/A	Opt	Std	Std	Std	Std	Std	Std	Std	Std	Std
Auto Callback Intercom/DN	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Auto Dial Speed Dial Buttons	Opt	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Auto Dial DSS Buttons	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Automatic Hold	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std
Auto Off-hook Selection	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Busy Override Tone	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Forward-All Calls	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Forward-Busy	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std
Call Forward-No Answer	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std
Call Forward-Busy/No Answer	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std
Call Forward-Fixed	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Forward-External	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std
Call Forward-Remote Change	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std
Call Forward Override	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Park	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std
Call Park Orbits	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std
Call Pickup-Directory Number	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	R3.1	Std	Std
Call Pickup-Directed Station	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Pickup-Station Group	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	20	20	20	20
Call Pickup-Ringing CO Line	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Pickup-Ringing CO Group	N/A	2	2	2	2	2	2	2 or 4	2 or 4	2 or 4	2 or 4	2 or 4
Call Pickup-Holding/Parked	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Transfer Immediate	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Transfer with Announcement	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Call Transfer with Camp-on	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Camp-on Tone I-hold/Exclusive Hold	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	R3.2	R3.2	Std
Do Not Disturb	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Do Not Disturb Override	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
DP,DTMF Mode Change (Tone Button)	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Exclusive Hold	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Executive Override (break-in)	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Flash Button	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Handsfree Answerback on Intercom	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Handset Volume Control	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std
Headset Compatible	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Hearing Aid Compatible Telephones	Opt	Opt	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Line in Use (I-Use)	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Line on Hold (I-Hold)	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Microphone Cut-off Button (Mute)	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Off-Hook Call Announce - Speaker	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std
Off-Hook Call Announce - Handset	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
On-hook Dialing	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Pooled Line Keys	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Privacy Button	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std
Privacy Release Button	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Private CO Lines	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Release Key	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std

## Medium/Large Systems - Station Features *(continued)*

	XII/XX	XIIe/XXe		DK56/96		DK24/56/96		DK280			DK424	
	R1	R1	R2	R1	R2	R3	R4	R1	R2	R3	R3	R4
Release/Answer Key	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std
Remote Retrieval of Held Calls	N/A	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Repeat Last Number Dialed	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Ringing Line Preference	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Saved Number Redial	N/A	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std	Std
Speakerphone	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Station Speed Dialing	40	40	40	40	40	40	40	40	40	40	40	40
Two Color LEDs	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std	Std
User Programmable Feature Buttons	N/A	N/A	N/A	N/A	N/A	N/A	Std	Std	Std	Std	Std	Std

## Medium/Large Systems - Data Features

	XII/XX	XIIe/XXe		DK56/96		DK24/56/96		DK280			DK424	
	R1	R1	R2	R1	R2	R3	R4	R1	R2	R3	R3	R4
Data Switching (DIU)	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Data Key on DKT	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Data Release Key on DKT	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Keyboard Dialing Data & Voice Calls	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Modem Pooling	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Printer & Peripheral Sharing	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Security Groups	N/A	N/A	N/A	N/A	N/A	4	4	4	4	4	4	4
TAPI Compatible	N/A	N/A	N/A	N/A	N/A	Opt	Opt	Opt	Opt	Opt	Opt	Opt