

TOSHIBA

COMPETITIVE NOTES

**BUSINESS
TELEPHONE
SOLUTIONS**



Strata[®] ***CTX 670***

Digital Business Telephone System

**Feature Comparison
Medium Hybrid Systems**

Iwatsu[™] ADIX APS

Inter-Tel Axxess[™]

Avaya Magix[®]

NEC[™] Elite 192

NEC[™] Nitusko 384i

Nortel[™] Norstar Modular ICS

Panasonic[™] DBS96/192

Samsung[™] DCS400si

**TOSHIBA AMERICA
INFORMATION
SYSTEMS, INC.**

**TELECOMMUNICATION
SYSTEMS DIVISION**

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| System Features | Toshiba CTX670 | Iwatsu ADIX APS | Inter-Tel Axxess | Avaya Magix | NEC Elite 192 | Nitsuko 384i | Nortel Norstar+ | Panasonic DBS96/192 | Samsung DCS400si |
|---------------------------------------|----------------|-----------------|------------------|-------------|---------------|--------------|-----------------|---------------------|------------------|
| Account Codes - Voluntary | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Account Codes - Forced | Std | Std | Std | Std | Std | Std | N/A | Std | Std |
| Account Codes - Verifiable | Std | Std | Std | Std | Std | N/A | Opt CDR | Std | Std |
| Alarm Indicators (system) | Std | Std | Std | Std | N/A | Std | Opt | Std | Std |
| Amplified Conference Interface | Digital PAD | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Automated Attendant built-in | N/A | N/A | N/A | N/A | Opt | Opt | N/A | Opt | Opt |
| Automatic Call Distribution - Basic | Future | Opt | Opt | Std | Opt | Opt | Opt | N/A | N/A*1 |
| Automatic Call Distribution -Advanced | Future | Opt | Limited | Opt | N/A | N/A | Limited | N/A | N/A |
| Automatic Number ID (ANI) | Std | Std | Opt | Opt | N/A | Opt | Opt | Opt | Opt |
| Automatic Release from Hold | Std | Std | N/A | Std | Std | Std | Std | N/A | Std |
| Background Music Separate Interface | Std | N/A | N/A | N/A | N/A | Std | Std | Std | Std |
| Battery Backup - System | Opt | Opt | Opt | N/A | Std | N/A | N/A | Opt | N/A |
| Battery Backup - Memory | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Call Waiting with Camp-On | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Caller ID | Opt | Std | Opt | Opt | Opt | Opt | Opt | Opt | Opt |
| Classes of Service - Station | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Class of Service - Traveling | Std | Unknown | N/A | N/A | N/A | Std | N/A | Std | Std |
| CO Line Queuing | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Conference | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Cordless Multi-line Telephone Support | Opt | Opt | Opt | Opt | Opt | Opt | Opt | N/A | N/A |
| Credit Card ("0+") Dialing | Std | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Centrex/PBX Feature Buttons | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Centrex Ringing Repeat | Std | Std | N/A | Std | Std | N/A | Std | Std | N/A |
| Delayed Ringing | Std | Std | N/A | Std | Std | Std | Std | Std | N/A |
| Diagnostics | Std | Opt | Std | Std | N/A | Std | Std | N/A | N/A |
| Dialed Number ID Service (DNIS) | Opt | Std | Opt T1 | Opt | N/A | Opt T1 | Opt | Opt | Opt |
| Direct Inward Dialing (DID) | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt |
| Direct Inward System Access (DISA) | Opt | Std | Std | Std | Std | Opt | Opt | Std | Std |
| Distinctive CO/Intercom Ringing | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Distinctive Station Ringing | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Door Lock Control | Opt | N/A | N/A | N/A | Opt | N/A | Opt | Opt | Opt |
| DTMF Signal Time Selectable | Std | Unknown | Std | N/A | Std | Std | Std | Std | Std |
| Dual FCC Registration (KF/MF) | Std | Std | Opt | Std | Std | Std | Std | Std | Std |
| Enhanced 911 Operation | Opt | Std | Unknown | Unknown | N/A | N/A | Opt | Unknown | N/A |
| Flexible Button Assignment | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Flexible Station Numbering Plan | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Flexible Port Assignment | Std | Std | Std | Std | Std | Std | N/A | N/A | Std |
| Flexible Line Ringing Assignment | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Ground Start Lines | Opt | Std | Opt | Std | Opt | Opt | Opt | Opt | Opt |
| ISDN Basic Rate Interface | Opt | Opt | N/A | Opt | Opt | Opt | Opt | N/A | Opt |
| ISDN Primary Rate Interface | Opt | Opt | Opt | Opt | N/A | Opt | Opt | Opt | Opt |
| Least Cost Routing | Std | Std | Std ARS | Std | Opt | Std | Std | Std | Std |
| Live System Programming | Std | Unknown | Std | Std | Std | Std | Std | Std | Std |
| Lodging/Healthcare Features | Opt | Std | N/A | Opt | N/A | Opt | N/A | N/A | N/A |
| Message Waiting DKT/EKT | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| MW Lamp Generator for 2500-sets | Std | Opt | Opt | Std | Opt | Std | N/A | Std | Opt |
| Modular Expansion System Design | Std | Std | Std | Std | Std | Std | Std | N/A | Std |
| Multiple Directory Numbers | Std | Unknown | N/A | N/A | Limited | Std | Limtd.*3 | Limited | N/A |
| Multi-Language Display (E,F,S) | Std (E,F) | N/A | Std (E,J) | Std | Std (E,J) | N/A | Std | N/A | Std |
| Music on Hold Interface | Std | Unknown | Std | Opt | Std | Opt | Std | Std | Std |
| Networking - Feature Transparency | Std | Limited | Std | Limited | N/A | Limited | N/A | N/A | N/A |
| Networking - Coordinated Dialing Plan | Std | Opt | Opt | Opt | Opt | Opt | Limtd.*3 | Limited | N/A |
| Networking - Centralized Voice Mail | Opt | Opt | Opt | Opt | N/A | Opt | N/A | N/A | N/A |
| Night Ringing Answer Code | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Night Ring Over External Page | Opt | N/A | N/A | Opt | N/A | Opt | Opt | Opt | Std |
| Night Ring Over External Page Zones | Opt | N/A | N/A | Opt | N/A | Opt | N/A | N/A | Std |
| Night Service (Day/Night Modes) | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Night Service Auto Activation | Std | Std | Opt*2 | Std | Std | Std | Std | Std | Std |
| Off Premises Extensions - Analog SLT | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt |
| Off Premises Extensions - DKT | Opt-MCK | Opt-MCK | Opt*2 | Opt-MCK | Opt-MCK | N/A | Opt-MCK | N/A | N/A |
| Outgoing Call Restriction | Std | Std | Std | Std | Std | Std | Std | Std | Unknown |

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|---------------------------------------|----------------|-----------------|------------------|-------------|---------------|--------------|-----------------|---------------------|------------------|
| Paging - Internal DKT Group | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Paging - External | Opt | Opt | Opt | Opt | Opt | Opt | Std | Opt | Std |
| Paging - External Zone | Opt | Opt | Opt | Opt | Opt | Opt | Std | Opt | Std |
| Page Pickup (Meet-Me Page) | Std | Std | N/A | Std | Std | Std | Std | Std | Std |
| Pooled CO Line Groups | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Power Failure Transfer to SLT | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Std |
| Privacy/Non Privacy Option | Std | Std | N/A | Std | Std | Std | Std | Std | Std |
| Record to Voice Mail | Std | Std | Opt | Std | Opt | N/A | N/A | N/A | N/A |
| Relay Service | Opt | Opt | Opt | N/A | Opt | Opt | N/A | Opt | Std |
| Remote Administration/Maintenance | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt |
| Remote Expansion Cabinets | Opt | N/A | Opt(T1) | N/A | N/A | N/A | N/A | N/A | N/A |
| Station Hunting - Distributed | Std | Std | Std | Std | Std | N/A | N/A | Std | Opt |
| Station Hunting - Serial/Terminal | Std | Std | Std | Std | N/A | N/A | N/A | Std | Std |
| Station Message Detail Recording | Opt | Opt | Std | Opt | Opt | Opt | Opt | Std | Opt |
| Speed Dial Flexible Memory Assignment | Std*4 | N/A | N/A | N/A | Std | Std | N/A | N/A | Std |
| System Speed Dialing | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Telephone Set Upward Migration | Std | Std | Std | N/A | Std | Limited | N/A | Std | N/A |
| Toll Restriction | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Toll Restriction Override Codes | Std | Std | Std | Opt | N/A | Std | Std | Std | Std |
| Toll Restriction Speed Dial Override | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Traffic Measurement & Reporting | Opt | N/A | Opt | N/A | N/A | Opt | N/A | Std | N/A |
| Transfer Direct to Voice Mail Box | Opt | Std | Std | Std | Std | N/A | Std | Std | Std |
| Trunk-to-Trunk Connection | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| T1 Interface | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt |
| Upload/Download Programming | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt |
| Voice Mail Built-in Option PCB | Opt | N/A | N/A | Opt | Opt | N/A | N/A | N/A | Future |
| Voice or Tone Signaling Selectable | Std | Std | Std | Std | Std | Std | Std | Std | N/A |

| LCD Features | Toshiba CTX670 | Iwatsu ADIX APS | Inter-Tel Axxess | Avaya Magix | NEC Elite 192 | Nitsuko 384i | Nortel Norstar+ | Panasonic DBS96/192 | Samsung DCS400si |
|--------------------------------------|----------------|-----------------|------------------|-------------|---------------|--------------|-----------------|---------------------|------------------|
| Alphanumeric System Message | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Advisory Message | Std | Std | Std | Std | Std | Std | Std | Std | Opt |
| Auto Callback Number Display | Std | Unknown | Std | Std | Std | Std | Std | Std | Std |
| Calendar/Clock | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Call Duration (Time, Cost, Both) | Std (T) | Opt | Opt (B) | Opt (T) | Std (T) | Std (T) | Std (T) | Std (T) | Std (T) |
| Call Forward Source/Destination | Std | Unknown | Std | Std | Std | Std | Std | Std | Std |
| Calling/Called Number | Std | Unknown | Std | Std | Std | Std | Std | Std | Std |
| CO Line ID Incoming/Outgoing | Std | Unknown | Std | Std | Std | Std | Std | Std | Std |
| Dial Input Verification | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Feature Prompting Display | Std | Limited | Opt | Std | Limited | Std | Std | Opt | Std |
| Voice Mail Prompt/Soft Key Operation | Opt | N/A | Opt | N/A | N/A | Opt | Opt | Opt | N/A |
| Intercom User Name Display | Std | Unknown | Std | Std | Std | Std | Std | Std | Std |
| Large (multi-line) LCD Display | Opt | N/A | Opt | Opt | N/A | Opt | N/A | Opt | N/A |
| Speed Dial Directory Dialing | Std | Std | Opt | Std | Std | Opt | Opt | Std | Std |

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|---------------------------------|----------------|-----------------|------------------|-------------|---------------|--------------|-----------------|---------------------|------------------|
| Automatic Busy Redial | Std | Std | N/A | Std | Std | Std | N/A | N/A | Std |
| Automatic Callback Intercom | Std | Std | Std | Std | Std | Std | Std | Opt | Std |
| Auto Dial Buttons | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Automatic Hold | Std | Std | N/A | Std | Std | Std | Std | Std | Std |
| Auto Off-Hook Selection | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Background Music Through Phones | Std | Opt | Opt | Std | Std | Opt | Opt | Opt | Std |
| Busy Override | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Busy Station Transfer/Ringing | Std | Unknown | N/A | Unknown | N/A | Unknown | N/A | N/A | N/A |
| Call Fwd - All Calls | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Call Fwd - Busy | Std | N/A | Std | Std | Std | Std | Std | Std | Std |
| Call Fwd - No Answer | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Call Fwd - Busy/No Answer | Std | Std | Std | Std | Std | Std | N/A | Std | Std |
| Call Fwd - Fixed | Std | Std | Std | Std | N/A | Std | Std | Std | N/A |
| Call Fwd - External (Trunk) | Std | Std | Std | Std | Std | Std | Opt | Std | Std |
| Call Fwd - Remote Change | Std | Std | N/A | Std | N/A | N/A | N/A | N/A | N/A |

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|-----------------------------------------|----------------|-----------------|------------------|-------------|---------------|--------------|-----------------|---------------------|------------------|
| Call Fwd - Multiple (External/Internal) | Std | Std | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Call Fwd - System Wide Default | Std | N/A | Std | Unknown | N/A | Std | N/A | N/A | N/A |
| Call Park | Std | Std | N/A | Std | Std | Std | Std | Std | Std |
| Call Park Orbit Zones | Std | Std | N/A | Std | Std | Std | Std | Std | Std |
| Call Pickup - Directed | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Call Pickup - CO Line Groups | Std | Std | Std | Std | Std | Std | Std | Std | N/A |
| Call Pickup - Station Groups | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Call Pickup - Held/Parked | Std | Std | Std | Std | Std | Std | N/A | Std | Std |
| Call Transfer w/Camp-on | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Call Transfer Flexible Recall | Std | Std | Std | N/A | Std | Std | Std | Std | Std |
| Camp-on Recall Indication | Std | Std | Std | Std | Std | Std | Unknown | Std | Std |
| Continuous DTMF Signal Time | Std | Unknown | Std | Unknown | N/A | Unknown | N/A | N/A | Unknown |
| Do Not Disturb | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Do Not Disturb Override | Std | Std | Std | Std | N/A | Std | Std | Std | Std |
| DP/DTMF Mode Change (Tone Key) | Std | Std | N/A | N/A | Std | Std | Std | Std | Std |
| DSS Buttons | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Executive Override (break-in) | Std | Std | N/A | Std | Std | Std | Std | Std | Std |
| Flash Button | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Handsfree Answerback | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Handset Volume Control | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Headset Compatible | Opt | Std | Std | Opt | Std | Opt | Opt | Std | Std |
| Hold | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Hold - Exclusive | Std | Std | Std | N/A | Std | Std | Std | Std | Std |
| Hold Recall | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Hot Dialpad | Std | N/A | Std | Unknown | N/A | N/A | N/A | N/A | N/A |
| Hotline Off-hook Ringdown | Std | Std | Std | N/A | Std | Std | Std | N/A | Std |
| Line in Use (I-Use) | Std | Std | N/A | Std | Std | Std | N/A | Std | Std |
| Line on Hold (I-Hold) | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Microphone Cut-off Button (Mute) | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Microphone Sensitivity Control | Std | N/A | FD only | N/A | N/A | N/A | N/A | N/A | N/A |
| Off-Hook Call Announce - Speaker | Opt | N/A | Opt | Std | N/A | N/A | N/A | Opt | Opt |
| Off-Hook Call Announce - Handset | Std | Std | N/A | N/A | Std | Opt | Std | Std | N/A |
| Pooled Line Keys | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Privacy/Privacy Release Button | Std | N/A | N/A | Std | N/A | Std | Std | N/A | N/A |
| Private CO Lines | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Release Key | Std | Unknown | N/A | Std | Std | Std | Std | Std | Std |
| Release/Answer Key | Std | Unknown | N/A | Unknown | N/A | N/A | Unknown | N/A | Std |
| Repeat Last Number Dialed | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Ringing Line Preference | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Soft Keys for LCD Feature Operation | Std | N/A | Opt | Std | Limited | Std | Std | Opt | Std |
| Speakerphone - Half Duplex | Std | Std | Opt | Opt | Std | Opt | Std | Opt | Opt |
| Speakerphone - Full Duplex | Opt | N/A | Opt | N/A | Opt | Opt | N/A | N/A | N/A |
| Station Speed Dialing | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Two Color LEDs | Std | Std | Std | Std | Std | Std | N/A | Std | 3 Color |
| User Programmable Feature Keys | Std | Std | Std | N/A | Std | Std | Std | Std | N/A |

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|-------------------------------------|----------------|-----------------|------------------|-------------|---------------|--------------|-----------------|---------------------|------------------|
| Advisory Message (Pink Slip) | Std | N/A | N/A | Unknown | N/A | Unknown | Unknown | Unknown | N/A |
| Alarm Lamps for System Faults | Std | Std | Std | Std | N/A | Std | N/A | Std | N/A |
| Answer Key | Std | Std | Std | Std | Std | Std | Std | Std | N/A |
| Answer Priority | Std | Unknown | N/A | Std | N/A | N/A | N/A | N/A | N/A |
| Answer Prompting | Std | N/A | Std | N/A | N/A | N/A | N/A | N/A | N/A |
| Attendant Conference | Std | Unknown | Std | Std | Unknown | Std | N/A | N/A | N/A |
| BLF Indication | Std | Opt | Std | Std | Std | Opt DSS | Opt | Opt | Std |
| DSS Operation | Std | Std | Unknown | Opt | Std | Opt | Unknown | Unknown | Std |
| Call Accounting Display | Std | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Call Waiting LED/Display Indication | Std | Std | Std | LED | Opt | N/A | N/A | Std | Std |
| Call Waiting Count Display | Std | N/A | Std | Std | N/A | N/A | N/A | N/A | N/A |
| Camp-on/Transfer & Indication | Std | Std | Std | Std | Unknown | N/A | N/A | N/A | Std |
| CRT Display | Std | N/A | Std | N/A | Std | N/A | N/A | Std | N/A |
| Directory Display on LCD or CRT | Std | N/A | Std CRT | N/A | N/A | N/A | N/A | Std | N/A |

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|-----------------------------------|-----------------------|------------------------|-------------------------|--------------------|----------------------|---------------------|------------------------|----------------------------|-------------------------|
| DTMF Tone Sent from Dialpad | Std | N/A | Std | Std | Unknown | Std | Unknown | Unknown | N/A |
| Emergency Call to Operator | Std | Unknown | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Feature Prompting w/Soft Keys | Std | N/A | Std | N/A | N/A | N/A | Std | N/A | Std |
| Feature Help On-Line | Std | N/A | N/A | N/A | N/A | N/A | N/A | Std | N/A |
| Incoming Call Identification | Std | N/A | Std | Std | Unknown | Std | Std | Std | Std |
| Individual Trunk Access | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Intercept Call | Std | Std | Std | Std | N/A | Std | Std | N/A | N/A |
| Interposition Call/Transfer | Std | Unknown | Unknown | Std | Unknown | Std | N/A | N/A | N/A |
| Load Sharing | Std | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Lockout/Privacy (from re-entry) | Std | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Maint./Admin. from Attendant | Std | Unknown | Opt | Std | Std | Std | N/A | N/A | N/A |
| Message Center (Set MW Light) | Std | Std | Std | Std | Std | Std | Std | Std | N/A |
| Night Service Control | Std | Std | Std | Std | Std | Std | Std | Std | Std |
| Overflow Facility | Std | Std | Std | Std | Std | Std | N/A | Std | Std |
| Position Busy Mode | Std | N/A | Unknown | Std | N/A | Std | N/A | N/A | N/A |
| Power Failure Transfer Control | Std | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Programmable Feature Buttons | Std | Unknown | Unknown | Std (34) | Unknown | Std (20) | Unknown | Unknown | Std |
| Selective Answering (ICI Keys) | Std | N/A | Std | N/A | N/A | N/A | N/A | N/A | N/A |
| Splitting | Std | Std | N/A | Std | N/A | Std | N/A | N/A | N/A |
| Supervised Loop Operation | Std | Std | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Through Dialing | Std | Std | Unknown | Std | Unknown | N/A | N/A | Std | N/A |
| Transfer Direct to Voice Mail Box | Std | N/A | Std | Std | N/A | N/A | Std | Std | Std |
| Trunk Group Access Control | Std | Std | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Type of Design (PC, Proprietary) | PC | Propr. | PC | Propr. | PC | Propr. | PC | PC | N/A |
| Volume Control Keys | Std | Std | Unknown | N/A | Unknown | Std | Unknown | Unknown | Std |

| CTI Features | Toshiba CTX670 | Iwatsu ADIX APS | Inter-Tel Axxess | Avaya Magix | NEC Elite 192 | Nitsuko 384i | Nortel Norstar+ | Panasonic DBS96/192 | Samsung DCS400si |
|----------------------------------------|-----------------------|------------------------|-------------------------|--------------------|----------------------|---------------------|------------------------|----------------------------|-------------------------|
| CTI - TAPI 1st Party Compatible | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt | Opt |
| CTI - TAPI 3rd Party TSAPI or CSTA | CSTA | Opt | Opt | Opt | N/A | Opt | Opt | Opt | Opt |
| Integrated DKT/PC Interface Unit | Opt | N/A | Opt | Opt | N/A | Opt | Opt | N/A | Opt |
| Data Switching Stand-Alone DIU | N/A | Opt | N/A | Opt | N/A | Opt | Opt | Future | N/A |
| Keyboard Dialing Data & Voice | Std | Opt | Opt | Opt | N/A | Std | Opt | Future | Opt |
| LAN HUB Integration | Std | N/A | N/A | N/A | Opt | N/A | N/A | N/A | N/A |
| PC Telephone | Opt | Opt | Opt | Future | Opt | Opt | N/A | Opt | N/A |
| Security Groups for Data Calls | Std | N/A | N/A | N/A | N/A | Std | N/A | N/A | N/A |
| Voice Over IP - External Trunk Intf. | Opt-Ok | Opt | Opt | Opt | N/A | Opt | N/A | N/A | N/A |
| Voice Over IP - Integrated Trunk Intf. | Opt | N/A | N/A | N/A | Opt-NMS | N/A | N/A | N/A | N/A |
| Voice Over IP - IP Telephones | DKT-MCK | N/A | Opt | N/A | DKT-MCK | N/A | DKT-MCK | N/A | Future |

| Maximum Capacities | Toshiba CTX670 | Iwatsu ADIX APS | Inter-Tel Axxess | Avaya Magix | NEC Elite 192 | Nitsuko 384i | Nortel Norstar+ | Panasonic DBS96/192 | Samsung DCS400si |
|---------------------------|-----------------------|------------------------|-------------------------|--------------------|----------------------|---------------------|------------------------|----------------------------|-------------------------|
| KSU Cabinets | 7 | 5 | 4 | 3 | 3 | 3 | 1 | 2 | 2 |
| PCB Trunk/Station Slots | 68 | 29 | 28 | 17 | 24 | 25 | N/A | 24 | 20 |
| Universal Slots | 68 | 29 | 28 | 17 | 24 | 24 | N/A | 2 | 20 |
| Trunk/Station Ports | 672 | 472 | 512 | 272 | 192 | 384 | 272 | 192 | 384 |
| Universal Ports | 672 | 472 | 512 | 272 | 184 | 256 | N/A | 16 | 384 |
| Trunk Lines | 264 | 200 | 512 | 80 | 64 | 128 | 120 | 64 | 320 |
| DID Lines | 264 | 112 | 64/512*2 | 80 | 32 | 128 | 120 | 64 | 320 |
| Tie Lines | 264 | 112 | 0/512*2 | 72 | 32 | 128 | 120 | N/A | 320 |
| T1 Interface Units | 11 | 8 | 16 | 3 | 3 | 5 | 2 | 2 | 12 |
| PRI Interface Units | 11 | 8 | 8 | 3 | N/A | 5 | 2 | 2 | 12 |
| BRI Trunk-side Channels | 256 | 56 | N/A | 32 | 16 | 64 | 30 | N/A | 160 |
| BRI Station-side Channels | 96 | 56 | N/A | 32 | 16 | 64 | 30 | N/A | 160 |
| EKT Stations | N/A | 232 | 224 | 136 | N/A | N/A | N/A | N/A | N/A |
| DKT Stations | 560 | 360 | 448 | 200 | 120 | 256 | 192 | 144 | 384 |
| Standard Stations | 544 | 228 | 512 | 200 | 118 | 240 | 192 | 128 | 320 |
| OPXs | 544 | 20 | 512 | 200 | 44 | 240 | 192 | 144 | 320 |
| DKT/PC Interface Units | 462 | 64 | 200 | N/A | 288 | 192 | N/A | N/A | Unknown |
| DSS Consoles | 16/560*4 | 8 | 20 | 8 | 4 | 4 | 5 | 8 | 32 |
| Attendant Consoles | 4 | 8*5 | 5 | 4 | 4 | 2 | 5 | N/A | N/A |
| Attendant Positions | 4 | 8 | 5 | 4 | No Limit | 4 | 5 | 4 | 32 |

| Maximum Capacities | Toshiba CTX670 | Iwatsu ADIX APS | Inter-Tel Axxess | Avaya Magix | NEC Elite 192 | Nitsuko 384i | Nortel Norstar+ | Panasonic DBS96/192 | Samsung DCS400si |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|------------------|-------------|---------------|--------------|-----------------|---------------------|------------------|
| Door Phones | 24 | 359 *5 | 10-CO Port | CO Port | 4 | 8 | 4 | 16 | *1 |
| Door Locks | 10 | N/A | N/A | 4 | N/A | 4 | 16 | 1 | N/A |
| PFT Telephones | 552 | 8 | 20 | 9 | 12 | 8 | 8 | 32 | 20 |
| CO Line Groups | 128 | 60 | 99 | 11 | 32 | 128 | 15 | 7 | 50 |
| Call Pickup Groups | 32 | 60 | 75 | 30 | 48 | 32 | Unknown | 16 | 20 |
| Conference Parties | 8 | 4 | 4 | 5 | 4 | 8 | 3 | 4 | 5 |
| Simultaneous Conferences | 30 | 8 | 12 or 24 | No Limit | 6 | 4 | Unknown | 6 | 5 |
| System Speed dial | 800 | 900 | 1000 | 130 | 80*6 | 1000 | 70 | 90 | 500 |
| Station Speed dial | 100*4 | 10 | 10 | 24 | 20*6 | 20 | 24 | 10 | 50*1 |
| Alphanumeric System Messages | 40 | 90 | 20 | 20 | 10 | 64 | 9 | 10 | 25 |
| Alphanumeric Personal Messages | 10 | 10 | N/A | N/A | N/A | N/A | N/A | N/A | 10 |
| External Page Zones | 16 | Unknown | 10 | 8 | 3 | 3 | 6 | 8 | 4 |
| Internal Page Groups | 16 | 30 | 9 | 7 | 3 | 32 | 6 | 8 | 4 |
| Park Orbit Zones | 64 | 60 | N/A | 8 | 10 | 10 | 25 | 10 | 10 |
| Station Ring Tones | 4 | 8 | 9 | 8 | 3 | 6 | 4 | Unknown | 8 |
| Music-on-Hold Interfaces | 15 | 9 | 1 | 1 | 1 | 2+CO*7 | 1 | 2 | 2 |
| Legend: Std = Standard Feature Opt = Optional Feature N/A = Not Available Future = Future Feature planned for next release | | | | | | | | | |

Notes

1. Samsung attempts to use UCD with hunt groups and announcements in ACD applications, but lacks much needed functionality. Samsung door phones plug into DKT ports. Each door phone requires a special interface module. Samsung allows maximum 2,500 speed dial numbers per system, divided among maximum 500 system speed dial and maximum 50 station speed dial numbers per station.
2. Inter-Tel Axxess supports a maximum of 64 analog DID lines, but up to 512 can be supported via T1. The Axxess does not support analog Tie lines, but up to 512 can be supported via T1. The Axxess requires Axxessory Talk voice mail PC processor to support Night Service Auto Activation. The Axxess supports off-premise DKTs via dial up modem. This is a poor substitute for a permanent dedicated connection.
3. The Nortel Norstar DID numbers (not regular DNs) can appear more than once on a DKT and can appear on another telephone, providing limited multiple DN appearances. No phantom DNs. A Norstar can be an end node in a Meridian 1 private network, but cannot network multiple Norstars alone. No centralized voice mail and no feature transparency.
4. Toshiba Strata CTX670 supports both 60-button and 20-button DSS Consoles, with higher capacities of the 20-button model. CTX670 maximum station speed dial is 100 per station, assignable in increments of 10, and total 5,600 per system.
5. Iwatsu ADIX APS attendant console uses 2 DKT station ports. The optional BLF unit uses 1 additional DKT port. ADIX door phone uses 1 DKT station port.
6. NEC Elite speed dial can be divided as either 80 system and 20/station speed dial, or 1,000 system speed dial and no station speed dial.
7. Nitsuko 384i has 2 dedicated MOH interfaces. Additional MOH sources can be interfaced through CO line ports.

Disclaimer: This competitive report reflects information gathered from a variety of sources. In some cases, available information is limited and subject to interpretation, or may not reflect the latest developments of these products. To the best of our knowledge, this information is current and accurate, but is supplied on a best-available basis.

Toshiba America Information Systems, Inc.

Telecommunication Systems Division
9740 Irvine Blvd., Irvine, CA 92618-1697 (949) 583-3700
<http://telecom.toshiba.com>