

Vendor	3COM NBX 100	Alcatel OmniPCX 4400	*Altigen Altiserv OfficePlus, AltWare 4.5	*Artisoft TeleVantage 4.0	Avaya IP600 Release 10
Feature					
General Specifications					
Type (Rackmount, Tower PC)	Rackmount	Rackmount, Wallmount	Rackmount or Tower	Rackmount or Tower	19" Rackmount, 7U
Trunks x Extensions, Price	60x140, \$66,000	500 stations: \$927/station w/ IP phones, \$600/station with digital phones	52x96, \$69150 with custom Altiserv & IP phones; \$412 per port w/ IP phones	\$200 per trunk, \$100 per station (average system with hardware and software is \$500-\$600 per user)	48x200, \$149,212
Operating System	VxWorks	Unix, Linux	Windows NT/2000	Windows 2000	Windows 2000
Max # of Trunks	200	2,000 per system	144	96	300 per system, can network up to 64 switches
Max # of Stations	200	5,000 per system	250	264	450 per server (IP600); ~30,000 with clustering
Max # of Analog Phones	200	5,000 per system	250	264	450 per server (IP600); ~30,000 with clustering
Max # of Ethernet Phones	200	4,000 per system	108 per system; can tie multiple systems together	144	450 per server (IP600); ~30,000 with clustering
Trunk Support (T1/E1, Analog, BRI, PRI)	T1/E1, Analog, BRI, PRI	T1/E1, Analog, BRI, PRI	T1/E1, Analog, PRI	T1/E1, Analog, BRI, PRI	T1/E1, Analog, BRI, PRI
Phone Features					
Handset Support (Analog, Digital, Ethernet, PC Softphone)	Analog, Ethernet, PC Softphone	Analog, Digital, Ethernet, PC Softphone	Analog, Ethernet, PC Softphone	Analog, Ethernet, PC Softphone	Analog, Digital, Ethernet, PC Softphone
Handset LCD Display	16 and 24 character models	Yes	Yes, CTI interface on Altiserv Telephones	Yes	2-line LCD + high-end IP phone, 320x240 color LCD
Message-Waiting Indicator	Yes	Yes	Yes	Yes	Yes
Call Waiting	Yes	Yes	Yes	Yes	Yes
CallerID/ANI	Yes	Yes	Yes	Yes	Yes
Audio Codecs (Compression)	G.711, G.723.1	G.711, G.723.1, G.729a	G.711, G.723.1	G.711, G.723.1, G.729a	G.711, G.723.1, G.726, G.729a&b
SIP/H.323/Other VoIP Protocols	H.323	H.323, SIP	H.323	H.323	H.323
Echo Cancellation	Yes	Yes	Yes	Yes	Yes
Silence Suppression	Yes	Yes	Yes	No	Yes
DHCP Phone Support	Yes	Yes	Yes	Yes	Yes
Max # of Conference Participants	4 parties	29 parties	6, 4 simultaneous	7, 77 simultaneous	6, 80 simultaneous
Speakerphone	Yes	Yes	Yes	Yes	Yes
Inline Power Planned Support for 802.3af Inline Power Standard	Yes, No	Yes, Yes	No	Yes	Yes, Yes
Call Routing			Yes		
DID/DNIS	Yes	Yes	Yes	Yes	Yes
IVR/Auto Attendant	No, Yes	Yes, Yes	Yes	Yes, Yes	Yes, Yes
ACD with Queues	No	Yes	Yes	Yes	Yes
ACD Skills-Based Routing	No	Yes	Yes	Yes — with Call Center option	Yes
Hunt groups	Yes	Yes	Yes	Yes	Yes
Voice Mail Features					
Maximum # of Mailboxes	225	15,000	2,000	Unlimited	240 without Intuity Audix
Maximum # of Auto Attendants	99	1	255	Unlimited	Up to 240 through Intuity Audix
Integrated or Unified Messaging	Yes	Yes	Yes	Yes-unified messaging	Yes, Integrated (unified messaging available with adjunct)
Text-to-Speech Integration with e-mail (Remotely Listen to e-mail)	Yes	No	No	No	Yes
Audible Call-Screening of Name	Yes	Yes	Planned	Yes	Yes
Live Screening of Voice Mail	No	No	Planned	Yes	No
Fax Features					
Detect Fax Tones and Redirect to Fax Machine	Yes	Yes	No	Yes	Yes
Remotely Retrieve Faxes	Yes	Yes	No	No	Yes
Fax-on-Demand	Yes	Yes	No	No	No
Advanced Features					
One-Number Follow-Me	Yes	Yes	Yes	Yes	Yes
Speech Recognition Directory Assistance	Yes	No	No	No	Yes
Other Speech-Rec Functionality (Ex. VXML)	No	No	No	No	Yes
Intercom (Hands-Free) Overhead Paging	Yes	Yes	Yes	Yes	Yes
Transcoding (i.e. G.729 to G.711)	Yes	Yes	Yes	Yes	Yes
Greeting Scheduling	Yes	Yes	Yes	Yes	Yes
Desktop Call Control	Yes	Yes	Yes	Yes	Yes
TAPI Support	Yes	Yes	Yes	Yes	Yes
GUI Access to Voice Mail	Yes	Yes	Yes	Yes	Yes
Other					
Redundancy Features	No	Redundant Call Control and IP Card Call Control	Redundant power supplies and Altiserv systems, Distributed Intelligent Network Architecture (DINA) PSTN backup of VoIP.	Support RAID hard drives, UPS, trunk to station failover	Alternate gatekeeper function for IP phone registration, "Watchdog" to monitor and revive softwares, processes automatic PSTN failover
802.1p and 802.1q Support	Yes, Yes	Yes, Yes	No	No	Yes, Yes
VLAN Tagging	Yes	Yes	No	No	Yes
Management Features (Command Line, Browser, Windows App, Telnet)	Browser + free network topology, stress monitoring, alarms/reports via 3Com Network Supervisor.	CLI and Windows application (Java based) with client Java or Web client.	Yes, Multiple System Management through Single Interface.	Windows Admin UI, NT Event logging	Web-based, Avaya Site Administration, Telnet CLI

*No writeup since these were last minute entries

Cisco AVVID	Ericsson WebSwitch 2000 v3	ESI IP-200	*Mitel 3300 ICP	NEC NEAX IPXDM	Siemens HiPath 3000
Rackmount	Rackmount	Rackmount	Rackmount	Rackmount	Rackmount/Wallmount
~\$157,000 with 250 phones and Voice Mail or ~\$628 per extension w/Voice Mail	8x48 users (16 analog/32 IP), ~\$400 per user including IP handsets	66x96, \$549 per seat	100 extensions (including phones) = \$25,000 MSRP 24 x 100	~\$500 to \$800 per extension	
Windows 2000 Advanced Server	PSOS, RealTime OS	Proprietary	VX-Works	Proprietary	Proprietary
~800 per CallManager or 3,000 per cluster	76 per WS, can cluster up to 20 WS	66	960	~900	120 per node
2,500 per server (7835) or 1,000 per server (7825); 10,000 per cluster	100 per WS; can cluster up to 2000	96	40,000	16,000	500
2,500 per server (7835) or 1,000 per server (7825); 10,000 per cluster	1,200 per cluster	30	40,000	~900 TDM	384
2,500 per server (7835) or 1,000 per server (7825); 10,000 per cluster	2,000 per cluster	96	40,000	16,000	500
T1/E1, Analog, BRI, PRI	T1/E1, Analog, BRI (2Q), PRI	T1/E1, Analog, PRI	T1/E1, Analog, BRI, PRI	T1/E1, Analog, BRI, PRI	T1/E1, Analog, BRI, PRI
Analog, Ethernet, PC Softphone	Analog, Ethernet, PC Softphone	Analog, Ethernet, PC Softphone	Analog, Digital, Ethernet, PC Softphone	Analog, Digital, Ethernet, PC Softphone	Analog, Ethernet, PC Softphone
2-line LCD + XML-based display models	3x20 LCD	2x16 LCD	1-line + 320x680 models	Yes + color VGA model avail.	2x24 + larger LCD model
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
G.711, G.723.1, G.729	G.711, G.723.1, G.729a&b	G.711, G.729a	G.711, G.723.1, G.726, G.729	G.711, G.723.1, G.729a	G.711, G.723.1
Phones-SCCP or SIP; Gateways-H.323 or MGCP	H.323-phones/gateways/gatekeepers; DCM-intraWebSwitch signalling	Proprietary	Phones-SIP, Gateways-H.323		H.323/Comet IP
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	No	Yes	No	No
Yes	Yes	Proprietary	Yes	Yes	Yes
6, 100 simultaneous	8, 64 simultaneous	4, 12 simultaneous	8, 64 simultaneous	8 parties	5, 6 conferences max
Yes	Yes	Yes	Yes	Yes	Yes
Yes, planned	Yes, planned	No, under consideration	Yes, Yes	Yes, Yes	Yes, Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes, Yes	No, Yes	No, Yes	Yes, Yes	Yes, Yes	Yes, Yes
Yes	Yes	Yes	Yes	Yes	Yes
Not until CRA v3.0	Planned	No	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
500 without Unity	2,000	96	45,000	5,000	1,000
800	20	100	180	500	Integrated inside AllServe; 32 ports for the access
Yes-unified messaging	Yes-unified messaging	No	Yes-unified messaging	Yes-unified messaging	Yes-unified messaging
Yes	No	No	Yes	Yes	No
No	No	No	Yes	No	No
No	No	Yes	Yes	No	No
Yes	Yes	Yes	Yes	Yes	Yes
Yes, with Unity Unified Messaging	Yes	No	Yes	Yes	Yes
No	No	No	No	No	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	No	No	Yes	No	No
Check voice mail messages, follow-me, directory, dial-by-name, dial-by-number	No	No	Yes-VXML, speech-enabled unified communications	No	No
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	No	Yes	Yes	Yes
Redundant power supplies, RAID hard drives, systemic redundancy through clustering, automatic fallback in gateways.	Systems are networked to provide redundancy, ex: Trunks and routes can be spread over multiple systems. All systems independent of one another, therefore no single point of failure.	No	Self-healing load sharing N+1 redundancy for all system elements (voice mail, call control, disk drives, power supplies, network access).	Redundant system processors, redundant power supplies, redundant switching matrix may be provided.	Redundant Power Supply, TDM/IP routing fall back.
Yes, Yes	Yes, Yes	Planned	Yes, Yes	Yes, Yes	Yes, Yes
Yes	Yes	No	Yes	Yes	Yes
Browser, Data network elements use CLI, Web, Telnet, and SNMP.	NetManager Windows app. Embedded SNMP V2 agent for fault management. Embedded CDR for accounting/performance, TFTP, Telnet.	CLI, Windows, and programming through phone.	Browser, Data network elements use CLI, Web, Telnet, and SNMP.	Windows available	CLI, Telnet, Windows