



- Fourth-generation system delivers proven high-fidelity audio and system reliability
- Converged communications eliminates the cost and administrative overhead required for separate voice and data networks
- Worktop choices meet varying performance and budget requirements
- Advanced built-in applications include Automated Attendant, voice mail and graphical Call Detail Recording; easily integrated optional software includes off-the-shelf call center, customer relationship management, and call reporting solutions

3Com[®] NBX[®] 100 Communications System R4.3

DATA SHEET

Key Benefits

Increased Productivity Advanced applications and intuitive, browser-based management can save time and increase efficiency. Collaboration among staff can be more effective. Customer services can be enhanced without requiring additional personnel. Built-in voice mail, computer telephony integration (CTI), voicemail/e-mail clients (IMAP4), and call detail reporting (CDR) applications give organizations practical, productivity-enabling tools.

Easy Deployment

Standards-based design, including support for IEEE 802.3af Power over Ethernet (PoE) and Session Initiation Protocol (SIP) help ensure seamless integration with existing network infrastructure and the investment assurance of cost-effective system evolution. Open Applications Protocol Interface (API) architecture provides access to best-inclass third-party applications. Multisite message exchange options between 3Com and third-party Voice Profile for Internet Mail (VPIM)-compliant voicemail systems offer organizations the flexibility of interoperable systems.

Practical Scalability

Organizations can boost capacity and enhance applications via software upgrades, without the need for expensive hardware acquisitions. Cost-saving incremental licensing provides scalability up to 200 devices (lines/stations; max. 100 PSTN lines) and up to 48 NBX IP Virtual Tie Lines (VTLs).

Reduced Operation Costs

A single voice and data network gives organizations the advantages of a converged infrastructure. Streamlined deployment and management optimize existing IT resources. Simplified movesadds-changes can significantly lower total cost of ownership. Voice over Internet Protocol (VoIP) telephony can dramatically reduce long distance calling expenses unified multisite dialing plans and hop-on/hop-off toll-bypass across WANs make possible immediate cost savings.

Budget-Matching Phone Choices

Multiline IP phones with robust feature-sets let organizations optimize their investments in communications infrastructure. 3Com® phones include 10/100 Mbps Ethernet/IP phones, softphones, and receptionist consoles that support NBX H3 or SIP call control and PoE for deployment flexibility.

Extended Range of Advanced Applications

3Com NBX® IP telephony systems support numerous standards-based applications for improving business activities. The 3Com Voice Solution Providers Program enhances these options with third-party offerings tested for compatibility and integration with 3Com voice solutions.

3COM® NBX® 100 COMMUNICATIONS SYSTEM R4.3 DATA SHEET

Specifications

System Requirements

100BASE-TX or 10BASE-T Ethernet LAN 3Com NBX V5000 call processor and chassis

Two 3Com business phones

At least one PSTN interface card if connecting to the PSTN

System Capacity

Supports up to 200 devices (lines/stations), including up to 100 PSTN Central Office lines and 48 Virtual Tie Lines

PSTN Gateway Options

Loop-start analog, T1/PRI, E1/PRI, ISDN BRI-ST, Q.SIG/Q.931

Port Connections

WAN: via external router with IP-ToS support LAN: Two 10/100 redundant uplink ports on the call processor Diagnostic: Serial port

Analog Devices

Supports 2500 series-compatible analog devices, including cordless phones, fax machines, night bells, and door ringers

Network, Prioritization, and Audio Compression Standards

100BASE-T, 10BASE-T, H.323, G.711, G.729a/b, ADPCM, 802.1d/p/Q, 802.2, 802.3, 802.3af, 802.11, IP, IP-ToS, DiffServ, TCP/IP, UDP/IP, DHCP, DNS

Application Standards

TAPI 2.1, TAPI/WAV, IMAP4, HTTP, H.323, NetMerge, SMTP/MIME, VPIM

Management

Built-in 3Com NBX NetSet[™] utility; 3Com Network Supervisor support

Languages/Dialects

Chinese (Cantonese), Chinese (Mandarin), English (Australian), English (UK), English (US), French (Parisian), German, Hebrew, Italian, Spanish (Castilian), Spanish (Mexican), Russian

Power Requirements

Call Processor: 85-264 VAC, 47-63 Hz, 3 A Chassis: 85-264 VAC, 47-63 Hz, 2.5 A

Power Dissipation

Call Processor: 150 W Chassis: 130 W Phone: 5 W (maximum)

Chassis/Call Processor Dimensions and Weight

Height: 29.21 cm (11.5 in) Width: 50.8 cm (20 in) Depth: 43.18 cm (17 in) Weight: chassis and packaging—10.35 kg (23 lb); call processor and packaging—13.5 kg (30 lb)

Environmental Ranges

Operating temperature: 0° to 40°C (32° to 104°F) Storage temperature: -40° to +70°C (- 40° to +158°F) Humidity: 5% to 85% noncondensing

Network Access Standards

National Requirements FCC Part 68, Canada CS03 CTR4/A1 (Commission Decision 98/520/EC)

Safety

UL/CUL 1950 3rd Edition IEC 60950: 1991 + A1, A2, A3, A4; National deviations for Europe and Australia

Emissions

FCC Part 15 Class A and B EN 55022:1994/A1, 1995/A2, 1997 Class A VCCI Class A AS/NZS 3548:1995 Class A

Immunity

EN 55024:1998**P**

Ordering Information

| PRODUCT DESCRIPTION | 3COM SKU |
|---|-------------|
| NBX 100 Call Processor | |
| One required per system with support for 200 NBX devices and 11 languages; manages all call traffic. Embedded application hosting, external application gateway connectivity, and telephony adjunct connectors for Music on Hold (1/8" RCA) and | |
| Paging (RJ-11), one 10BASE-T MIDI uplink port; one system hard disk and one installation guide. | 3C10110D |
| NBX 100 Chassis | |
| Six universal card slots; NBX Voice Mail license for four automated attendant/voicemail (AA/VM) ports and 30 minutes of | |
| message storage; one switchable 110/220 V, 50/60 Hz AC power supply; one 2.43 m/8 ft U.S. power cord and 48.26 cm/19" rack/wall mounting ears. Includes one trail port of ConneXtions, pcXset, and NBX Media Driver. | 3C10211C-XX |
| NBX 100 System Bundle Incloudes one each NBX 100 Call Processor, NBX 100 Chassis, NBX Analog Line Card (4 ports), four automated attendant ports, four hours VM storage. | 3C10100 |
| NBX Analog Line Card (FXO) | |
| Terminates up to four Loop-start PSTN telephone lines to the NBX system via four RJ-11 interfaces. Includes built-in Caller ID | |
| support (service must be purchased from a telco/PTT) and built-in power failure transfer jack. | 3C10114C |
| NBX Uplink Card | |
| Includes eight RJ-45 uplink ports (10 Mbps shared Ethernet) to add an NBX chassis or to support other NBX devices. | 3C10370 |
| NBX T1/PRI Card | |
| Terminates a voice T1 or T1/PRI circuit into the NBX system. Includes a 10/100 MB MDI uplink port to connect to a LAN switch | 26404465 |
| port for optimized network loading, plus a built-in CSU. | 3C10116D |

Ordering Information (continued)

| PRODUCT DESCRIPTION | | | 3COM SKU |
|---|---|---|--|
| NBX Analog Terminal Card (FXS | | , | |
| | og devices, such as an analog phone, cordless p | hone, Group 3 fax machine, speakerphone adjunct, etc. | |
| Does not support modems. | | | 3C10117C |
| NBX BRI-ST Card | | | |
| Terminates up to eight ISDN BRI-S | lines into the NBX system. | | 3C10164C-ST |
| VBX E1 Card | | | |
| | ne NBX system. Includes a 10/100 MB MDI uplir | nk port to connect to a LAN switch port for | |
| optimized network loading, plus a | | | 3C10165D |
| NBX Analog Adapter (FXS) | | | |
| • | Ethernet connection into an analog station po | rt (FXS) for industry standard analog phones or | |
| | ÷ . | as a PC. Supports IEEE 802.3af Power over Ethernet. | |
| | ower supply included. Requires NBX R4.2 or gr | | 3C10400-XX |
| | | | |
| NBX 100 Voice Mail Upgrade Li | renses ninutes of voicemail (VM) storage and four auto | amated attendant (AA) parts. Options offer | |
| | growth is efficient and economical. Each require | | |
| rice/capacity choices that ensure | From VM storage/AA ports | To VM storage/AA ports | |
| | 30 minutes/4 ports | 4 hours/4 ports | 3C10137 |
| | 30 minutes/4 ports | 20 hours/6 ports | 3C10134 |
| | 30 minutes/4 ports | 80 hours/12 ports | 3C10135 |
| | 4 hours/4 ports | 20 hours/6 ports | 3C10138 |
| | 4 hours/4 ports | 80 hours/12 ports | 3C10139 |
| | 20 hours/6 ports | 80 hours/12 ports | 3C10136 |
| Com 3102 Business Phone | | | |
| Provides full-duplex speakerphone | 18 programmable buttons with lights, 10 fixed | l-feature buttons, a two-line pixel display, | |
| olus two switched 10/100 Etherne | t ports and a removeable language-specific face | plate for additional communications flexibility. | |
| Supports 3Com NBX H3 or SIP call | control and IEEE 802.3af PoE standard. Local p | ower supply not included; may be ordered separately. | |
| equires NBX R4.2 or greater and | an NBX Group 2 device license (3C10412), sold | separately. 3C10402A | |
| Com 2101 Pasis Creaker Die | | | |
| SCOTH 3 TO F BASIC Speaker Phon | 2 | | |
| • | | with three softkeys and a four-way cursor controller, | |
| Provides half-duplex speakerphone | , four programmable buttons, multiline display | with three softkeys and a four-way cursor controller, rol and IEEE 802.3af PoE standard. Local power supply | |
| Provides half-duplex speakerphone olus two switched 10/100 Etherne | , four programmable buttons, multiline display t ports. Supports 3Com NBX H3 or SIP call cont | | 3C10401SPKRA |
| olus two switched 10/100 Etherne not included; may be ordered sepa | , four programmable buttons, multiline display t ports. Supports 3Com NBX H3 or SIP call cont | rol and IEEE 802.3af PoE standard. Local power supply | 3C10401SPKRA |
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Ordering Information (continued)

| PRODUCT DESCRIPTION | 3COM SKU |
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| NBX IP Serve Site License Allows local and remote NBX phones and Analog Line Card ports to operate as IP telephones at Layer 3 via static or DHCP IP addressing. Requires one IP address per MAC address (each device and CO port) in the system. | 3C10131 |
| NBX ConneXtions Gateway License Software-based H.323 gateway license supporting one concurrent VoIP H.323 session added to existing installed session. Uses a dedicated Windows NT/2000 workstation or server (PC HW and OS license not included). One-port license (unit-based) | 3C10315 |
| NBX IP Virtual Tie Line License Enables NBX-to-NBX VoIP calling between sites. Includes 60-day trial NBX IP On-the-Fly license. One-port 60-day trial license Two-port license (unit-based) | 3C10270 3C10328 |
| NBX VPIM Multisite Messaging Exchange License Lets NBX solutions exchange voice mails with third-party VPIM-enabled voicemail systems. Requires NBX R4.0 or greater. 60-day trial license Site license | 3C10276 3C10277 |
| NBX 3rd-Party Messaging License Enables connectivity between NBX and third-party voicemail systems. Requires NBX R4.0 or greater and NBX WAV application ports. 60-day trial license Site license | 3C10278 3C10279 |
| NBX Media Driver License Supports seamless connections for TAPI/WAV and NetMerge-enabled applications to NBX solutions, eliminating need for T1/PRI card or analog connections between third-party application server and need for DSP resource boards once required for application server. Support for only NBX R4.1 or greater. 60-day trial license (four-port license) One-port license (unit-based) | 3C10318 3C10319 |
| NBX pcXset License Puts a "softphone," the equivalent of an NBX business phone (USB handset or headset not included) on the screen of a laptop or PC running Windows 98/NT/2000/XP. Incremental or site licenses available. One-user license (unit-based) Site license | 3C10316 3C10154 |
| Polycom Device License Allows one Polycom Soundstation IP 3000 to connect to an NBX solution. One license needed per Polycom unit. One-port license (unit-based). | 3C10282 |
| CITELlink Norstar or Meridian Handset Gateway Device License Allows one 16-port CITELlink Analog Handset Gateway to connect to an NBX solution. Requires NBX R4.1 or greater. One-board license (unit based) | 3C10283 |
| CITELlink Analog Handset Gateway License Allows one 16-port CITELlink IP Handset Gateway to connect to an NBX solution. Requires NBX R4.2 or greater. 60-day trial license One-board license (unit based) | 3C10321 3C10361 |
| Phone Wall Mount Bracket Allows NBX 1102, 2101, and 2102 phones to be securely wall mounted to a standard telco wallplate. Not for use with NBX 3102 phone or NBX 1105 Attendant Console. Charcoal gray. | 3C10247 |
| NBX R4.3 Software and Documentation Includes NBX Resource Pack CD with NBX system software, related applications, and documentation. | 3C10185R4.3 |
| NBX Call Record and Monitor Licenses Enables third-party call recording and monitoring systems to connect to the NBX 100 and SuperStack 3 NBX systems. Site license | 3C10286 |
| Notes: E1/PRI and BRI-ST cards not available in Canada or the U.S. where these services are not standard. | |

E1/PRI and BRI-ST cards not available in Canada or the U.S. where these services are not standard. When ordering, replace XX with the applicable suffix:

AA = Australia, New Zealand; ME = Europe; SA = South Africa; UK = United Kingdom; US = Canada, Latin America, United States



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