

PX24N (Nano): Revolutionary IP PBX

Perhaps, it is the first time in the world!

PX24N (Telesis Nano) is a next-generation IP PBX to home and small business market. It is designed to fit the expectations of the market now and in the future. Although most small IP PBX products miss on features, the PX24N differs. The PX24N has many features, which can be built onto large IP PBX systems only or even not.

3 FXS
3 FXO
10 IP
+ 1 executive set

Nano = 17 total users ✓

Formula is simple but attractive like the PX24N itself.

3 analog DC loop trunks (FXO ports), 3 analog subscribers (FXS ports), and 10 IP (SIP, or H.323, or xSIP) users (local or trunk) are located in a unique box, featuring an executive digital phone too.



The photo above is not only an executive telephone set but much more inside!...

The PX24N is intuitive and easy to install and can be up in minutes only. The sleek box design and revolutionary features make it an ideal communications platform for today's dynamic businesses and home users as well.

The PX24N is a complete solution in the same box, which also features an executive digital telephone offering advanced telephony tasks.

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FXS, FXO, power, headset, microphone, handset connectors are located at the bottom.



10/100 BaseT ethernet on the side provides VoIP, API, maintenance, billing connectivity.

Easy installation without any special tools, easy administration and easy maintenance make the PX24N an ideal choice for experts as well as novices, who look for a SoHo platform. The PX24N eliminates additional hardware costs and recurring expenses.

The PX24N is a converged communications system with TDM and IP connectivity at the same time. It provides FXS, SIP, xSIP, H.323 for the local connectivity. Standard SIP and H.323 make the PX24N fully compatible with all industry standard IP devices including IP voice and video phones. Consequently, it is possible to use a mixture of legacy TDM and IP based terminals like phones in the same system. Furthermore, the PX24N offers similar features and services to both TDM and IP users, that make the life easier.

Similar to local connectivity, either provider or inter-office networking is achieved with FXO, SIP and H.323 interfacing. The PX24N can register to multiple TDM or VoIP providers at the same time. This results in flexibility for multi-path and multi-provider access applications. Enhanced routing algorithms allow least cost routing, as well as alternate routing, for the same or different destinations automatically.

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A Revolutionary IP PBX



The PX24N is a converged communications system with TDM and IP connectivity at the same time. Click on the image above to enlarge it.

The PX24N also hosts Telesis WebPhone, which is a SIP softphone or client applet. The applet can be run from any Java enabled web browser. Consequently, the embedded feature phone or any other TDM or IP terminal can be accessed wherever is an access to the Internet. That means free calls to your home or office throughout the world. A web browser, a microphone, and a headset are sufficient to make calls towards the PX24N and its terminals.

There are more!..

A 100 hours (6000 minutes) capacity DVR (Digital Voice Recorder) exist in each PX24N. DVR brings personal conversation recording capability, voice mail (VMail) services, automatic call distribution and answering machine functions without any expense.

The PX24N supports Telesis developed xSIP (eXtended SIP) protocol too. xSIP makes some value-added services (like busy display panel) in the PX24N to be applicable for VoIP calls too. Presently, Telesis offers two products with xSIP protocol. One is the ITS821 IP Phone, and another is freeware XPhone IP Softphone (PC and mobile phone editions).

The PX24N supports Telesis developed Xymphony-API protocol too. The result is various telephony tasks such as dialing, call transfer, call park, call retrieve, conference, conversation recording, and display of port status with using a computer. Moreover, Xymphony-API client utility (software) Telesis XCom is a freeware utility.

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Standard and Optional Features

Each PX24N comes with the following standard hardware and software features

- 3 analog DC loop trunks (i.e., CO trunks or FXO ports)
- 3 analog subscribers (FXS ports)
- Caller ID encoders (transmitters) for all FXS ports
- Caller ID decoders (receivers) for all FXO ports
- 10 SIP, or H.323, or xSIP local users or trunks
- 3 concurrent VoIP-TDM calls (gateway channels)
- Hosted Java WebPhone client applet
- DTMF transceivers
- Conference hardware
- Integrated CMDR (call records) buffer
- Integrated DVR (digital voice recorder) with 100 hours (6000 minutes) capacity
- 4 playing and 4 recording channels for the DVR
- Personal conversation recording capability
- Integrated Voice Mail (VMail)
- Integrated Automatic Call Distributor
- Integrated Web server
- Integrated API server
- Data link for adjunct call processing servers
- XDP (Xymphony Discovery Protocol) support
- Mains power adapter
- Hundreds of supplementary services for analog, digital and VoIP users

- Integrated feature phone with the following capabilities and features
 - backlitged, graphic LCD with 8 rows, 25 columns
 - 62 keys in total
 - 4x3 keypad, continuously backlitged for fashion and usability
 - navigation keys
 - call park keys
 - call record key
 - call transfer key
 - volume control keys
 - shift function key
 - 30 quick access keys (120 quick access with using the Shift key)
 - redial key
 - transfer key
 - disconnect key
 - conference key
 - speakerphone key
 - mute key
 - flash key
 - function keys
 - text keypad
 - headphone jack
 - microphone jack
 - missed calls listing
 - dialed numbers listing
 - incoming calls listing
 - phone directory
 - playing, deleting voice messages and recorded conversations
 - ringer melody selection
 - setting call forward unconditional
 - setting call forward busy
 - setting call forward no-reply

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- setting hotline
- activating call waiting
- activating do not disturb
- activating wake-up (reminder) service
- deflecting calls
- activating call back
- holding calls on
- retrieving calls
- transferring calls
- tracing transferred calls (up to 4 calls)
- activating conference
- recording the conversation bi-directionally (both calling and called party voices)

PX24N also provides the following options with licensing

- automatic conversation recording on TDM and IP users
- AES 256 media encryption for VoIP calls

Technical Specifications

General	
Operational software	Xymphony PX24NUMS
Maintenance and administration	Over IP
Operating voltage	220 VAC
CPU Type	High speed DSP
Switching Matrix	non-blocking
Analog subscriber (FXS) loop impedance	1200 ohms
Ethernet interface	10/100 BaseT
Integrated Digital Voice Recorder (DVR)	Yes
Integrated CMDR buffer	Yes
Integrated Xymphony API Server	Yes
Integrated Automatic Call Distributor (ACD)	Yes
Integrated Voice Mail Server	Yes
Integrated ETSI FSK modem	Yes
Integrated Conference Server	Yes
Integrated WEB Server	Yes
Integrated H.323 Gatekeeper	Yes

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Integrated SIP Registrar	Yes
Integrated xSIP Registrar	Yes
Integrated FTP Client	Yes
Applications	
Legacy PBX	Yes
Pure IP PBX	Yes
Hybrid IP PBX	Yes
Capacities	
Analog subscribers (FXS)	3
Digital subscriber (PX24N itself)	1
Analog DC loop trunks (FXO)	3
SIP users	8 independently programmable SIP users + 1 preset SIP profile for visitor calls
H.323 users	8 independently programmable H323 users + 1 preset H323 profile for visitor calls
Telesys xSIP users	8
VoIP - TDM gateway channels	3
Xymphony-API clients	4
DVR (Digital Voice Recorder) recording capacity	100 hours (6000 minutes)
DVR recording channels	4
DVR playing channels	4
DTMF transceivers	non-blocking
Caller ID transmitters	non-blocking
Caller ID receivers	non-blocking
TDM and Signaling	
Dial-pulse dialing from analog subscribers	Yes
Dial-pulse dialing to analog trunks	Yes
DTMF dialing from analog subscribers	Yes
DTMF dialing to analog trunks	Yes
Caller ID transmission towards analog subscribers	Yes
Caller ID detection on analog trunks	Yes
Automatic conversation recording for VoIP calls	Yes (with licensing)

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IP Telephony	
Interface	10/100 BaseT
H.323 protocol, Version 5	Yes
SIP Session Initiation Protocol, RFC 3261	Yes
Telesys xSIP (eXtended SIP) protocol	Yes
FTP (File Transfer Protocol)	Yes
Adjunct protocol	Yes
XDP (Xymphony Discovery Protocol)	Yes
Dynamic DNS update client service	Yes
G.711 audio codec	Yes
G.723.1 (5.3 and 6.4kbps) audio codec	Yes
G.729, G.729A audio codec	Yes
G.711 frame length	10 to 90msec
G.723.1 frame length	30 to 90msec
G.729, G.729A frame length	10 to 90msec
Silence Suppression (VAD)	Yes
Echo Canceler G.168-2002	Yes
QoS (Tos and Diffserv)	Yes
T.30 Fax Pass-through for SIP	Yes
Programmable ports / sockets	Yes
MD5 authentication	Yes
H.235 Baseline Security Profile	Yes
H.235 Baseline Security Profile with integrity	Yes
Digest authentication	Yes
Audio (voice) encryption	AES-256 (with licensing)
IP to TDM gateway capability	Yes
TDM to IP gateway capability	Yes
H.450 supplementary services	Yes
SIP supplementary services	Yes
API (Application Program Interface)	Yes
Automatic conversation recording for VoIP calls	Yes (with licensing)
Hosting Java SIP client applet	Yes

Ordering Codes

Ordering Code	Short Description
2.px2.4nanoxx	A PX24N IP PBX system. It is equipped with:

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(including power adapter)

- Xymphony operating firmware
- 3 analog DC loop trunks (i.e., CO trunks or FXO ports)
- Executive phone itself
- 3 analog subscribers (FXS ports)
- Caller ID encoders (transmitters)
- Caller ID decoders (receivers)
- DTMF transceivers
- Conference hardware
- Integrated CMDR (call records) buffer
- Integrated DVR (digital voice recorder) with 100 hours capacity
- 4 playing and 4 recording channels for the DVR
- Personal conversation recording capability
- Integrated Voice Mail (VMail)
- Integrated Automatic Call Distributor
- Integrated Signaling / Protocol Analyzer
- Integrated Web server
- Integrated FTP client
- Java SIP client applet for webphone calls
- Data link for adjunct call processing servers
- XDP (Xymphony Discovery Protocol) support
- 10 IP users in total
- 3 VoIP-TDM gateway channels
- Integrated API server for four clients
- Integrated H.323 gatekeeper
- Integrated SIP registrar
- Integrated xSIP registrar
- Installation accessories
- Hundreds of supplementary services for analog, digital and VoIP users

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	<ul style="list-style-type: none"> • Mains power adapter • and any other standard features mentioned in the previous section of this document
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Optional License

Ordering Code	Short Description
w.pxf.securex	<p>The security package license for the PX24N. The license allows:</p> <ul style="list-style-type: none"> • AES-256 encryption for VoIP calls, and • Auto voice recording of the pre-selected 3 users (TDM or IP)

Freeware Utilities

Ordering Code	Short Description
Telesys XTools	<p>A utility software for:</p> <ul style="list-style-type: none"> • Collecting CMDR (call records) • Generating Call Reports • Man-Machine-Interfacing with the integrated signaling analyzer • Archiving conversation records of auto recorded ports
Telesys XCom	Xymphony-API client software.
Telesys XPhone	VoIP softphone with xSIP protocol (PC, pocket PC, and Smartphone editions).