

## QUADRO IP PBX COMPARISON CHART

	Quadro2x Models	Quadro4x Models	Quadro16x Models
<b>CONNECTIVITY</b>			
FXS	2 ports	4 ports	16 ports
IP phones	4 (base) + 12 (with key)	30 (base) + 32 (with key)	18 (base) + 32 (with key)
Total Possible Phones	18	66	66
FXO	1 port	4x, 4xa: 2 ports	16x: 4 ports
ISDN	2xi: 1 port	4xi: 1 port	16xi: 3 ports
WAN: Ethernet RJ45	1 port	4x, 4xi: 1 port	1 port
WAN: ADSL		4xa: 1 port	
LAN: Ethernet RJ45	1 port	1 port	1 port
Total number of PBX Extensions	100	100	100
Call signaling	SIP, Loop Start	SIP, Loop Start	SIP, Loop Start
USB support		Memory cards	Memory cards
Voice coding	G.711, G.726, G.729, iLBC	G.711, G.726, G.729, iLBC	G.711, G.726, G.729, iLBC
External connectivity: (Radius client for billing)	●	●	●
<b>PBX FEATURES</b>			
Lifeline POTs on extension 11	●	4x, 4xa	16x
Call block, forward, hold, ID, park, relay, transfer, wait	●	●	●
Voice mail, Auto attendant	●	●	●
Call blocking, Forwarding, Holding,	●	●	●
Conferencing, Many Extension Ringing, Call	●	●	●
Call Park, Call Pickup, Call Paging, Intercom	●	●	●
Unified messaging	●	●	●
Autoredialing, Speed Calling, Do Not Disturb,	●	●	●
Hold Music Upload	●	●	●
Call Statistics	●	●	●
Dial Plans (call routing), Time of Day Dialling	●	●	●
T.38 FAX, FAX relay and clear channel fax	●	●	●
Directory assistance	●	●	●
<b>INTERNET</b>			
Browser configuration	●	●	●
Remote diagnostics and software upgrade	●	●	●
Remote system log analysis and download	●	●	●
STUN/NAT traversal	●	●	●
VPN IPSec, PPTP, L2TP, 3DES	●	●	●
IDS	●	●	●
DIFFSERV QoS	●	●	●
Intrusion detection	●	●	●
Policy and service filtering	●	●	●
Stateful inspection firewall	●	●	●
LAN DHCP server/WAN DHCP client	●	●	●
DYNDNS support	●	●	●
DNS server	●	●	●
SNTP	●	●	●
PPPoA		4xa: 1 port	
PPPoE	●	●	●



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**Quadro**<sup>®</sup>  
THE GLOBAL PHONE NETWORK IN A BOX

# IP PBXs



 epygi<sup>®</sup>

## The Quadro "All In One Box" solution, designed and manufactured by Epygi Technologies, Ltd., begins a new era in telecommunications.

Quadro brings it all together — the value of heavily discounted inter-company phone calls, the flexibility and ease of your preferred VoIP carrier, if you want a familiar local phone provider for emergency services and continuity, the ability to mix and match phone equipment with both IP phones and analogue phones on the same network, and finally, the robust features of an intelligent, programmable PBX on your own premises. You are in control. It's your own Global Phone Network in a Box™.

Expand your home teleworker capabilities. Use your mobile phone to make overseas calls using only your local rate minutes. Or, make it part of your office phone system, and everyone can make drastically discounted or fee long distance or international calls. And that's just the start.

### It's Easy

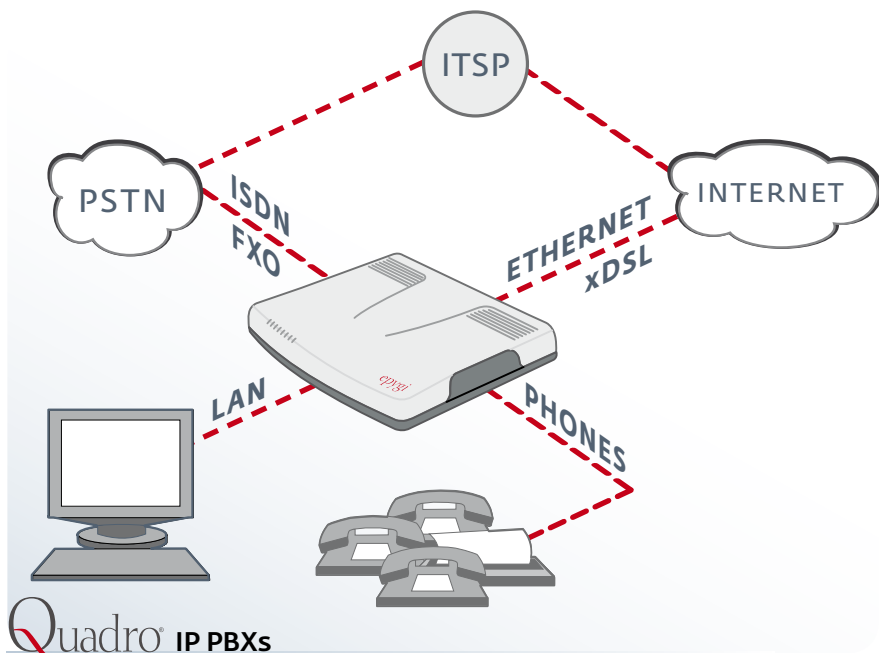
Connect a Quadro to your broadband DSL, cable, or ISDN network interface. The Quadro automatically configures itself. In minutes, you are making Voice over IP calls for practically no charge or for free. Connect IP phones, ordinary analog phones, or assign PBX trunks so that your entire office or household can use the Quadro. The voice quality through the Quadro's digital signal processor (DSP) is almost always better than your current long distance calls.

When there isn't a Quadro device on the other end, you can still call free of charge to any IP phone or computer. By using an Internet telephone VoIP gateway service provider (ITSP), you talk long-distance to anyone on the public phone network for pences per minute.

### It's Flexible

FXO or ISDN lines go to your local phone company so you can make calls from home or on the road. When you call from outside the office, Quadro's Caller ID recognises your mobile phone number and immediately authenticates your access to the Quadro.

Since the Quadro also contains call forwarding and call routing instructions, people who are out of the office can still be reached automatically. New York,



Los Angeles, London, Tokyo or Buenos Aires, the world becomes your virtual office. Communications has never been so inexpensive, flexible or convenient.

### It's Secure

The Quadro has a lifeline safety feature in the event of a power failure. If your power goes out, one phone immediately connects to the public phone network for emergency services.

The Quadro has many PBX (Private Branch Exchange) features such as voicemail, 3-way conferencing, call waiting, and call statistics to name a few. The Quadro is also packed with network features including a firewall and a Virtual Private Network (VPN) for secure communications.

### It's Inexpensive

Realise a quick payback on your initial investment. Then enjoy recurring cost savings every time you use your Quadro. No obsolescence. No upgrades. No maintenance fees. No license fees.

## Revolutionary? Absolutely!



## Interfaces

A good place to start is always with the back panel. The Quadro IP PBXs offer connections for up to four phone lines (FXO), up to 16 phone extensions (FXS) and up to 62 LAN IP phones. Up to 32 additional IP phones may be connected, using a feature key. The ISDN variants (2xi, 4xi and 16xi) deliver up to three ISDN ports. An Ethernet 10/100BASE-T port connects all Quadro IP PBXs to your local area network. A 10BASE-T Ethernet port or an xDSL port al-



lows access to your wide area network (WAN). The Quadro prioritises voice over data to enhance voice quality using a Codec that best meets your needs - G.711, G.726, G.729 and iLBC.

## How Does the Quadro Do It?

The Quadro is a very sophisticated and comprehensive system. If you wish, use the Quadro as your company's primary data router. Manage all your company's voice and data needs on one box.

The core of the Quadro is the Call Manager on a CPU running Linux software. The Call Manager maintains control and interfaces with the FXS and FXO ports (to set up and terminate voice calls). It also performs PBX functions. The Call Manager sends voice streams through the digital signal processor for voice compression.

Then, voice streams are passed from the DSP to the CPU where IP headers are added for routing via the Internet. Other IP applications include DHCP and PPP, Network Address Translation (NAT), RADIUS billing support, Network Time Protocol (NTP) for clock synchronisation, a WEB server (HTTP) for configuration and monitoring, a Simple Mail Transfer

Protocol (SMTP) client, a firewall, Intrusion Detection System (IDS), Domain Name Service (DNS), Virtual Private Network (VPN) and a Session Initiation Protocol (SIP) agent for retrieval of call routing information from public and private SIP servers.

Yet, all of this complexity is easy to maintain and direct with the streamlined GUI interface. You control your own voice mail, call forwarding, call blocking, priority (least cost) routing, messages and interactive voice prompts and voice mail. No longer does a small phone system suffer from a lack of robust features and sophisticated performance.

## The Company

Epygi Technologies, Ltd. is a privately held US company headquartered in Plano, Texas (North Dallas). Founded in 2000, Epygi designs and manufactures feature packed All-In-One-Boxes, IP PBXs, Voice over IP gateways, and cost-saving Conference Servers. Epygi products benefit from the team's extensive knowledge in telecommunications, DSP voice processing and data networking.

With over 200 employees worldwide, Epygi is building a global distribution of distributors and resellers. Sales and Development offices are located in the United States, Canada, Spain, France, Italy, Germany, United Kingdom, Romania, Turkey, Armenia and Japan. Epygi products operate as standalone products, are interoperable with a large number of existing analogue and IP products and provide reliable service to carriers offering IP voice services. The products are positioned to serve the large SME and SOHO markets, teleworkers, and branch offices of large corporations and organisations.

