

The Complete Small Office Telephone System In A Box!

Quadro6L
The Global Phone Network in a Box



Quadro6L: The Ready-to-go Small Office Telephone System

The Quadro6L is a fully-featured IP-PBX designed with the requirements of small businesses in mind. With support for up to eight extensions and six external PSTN lines, the Quadro6L is the ideal solution for small offices that require a state of the art telephone system, but also need a simple installation and low initial and ongoing costs.

Everything you need - ready to go!

The Quadro6L is available for purchase either as a separate device for integration into your existing office network infrastructure, or in 'bundled packs' where all required equipment is supplied, including the Quadro6L itself, your desired number of IP Phones, and a Power over Ethernet (PoE) Switch. Whichever way you purchase the Quadro6L, the device is supplied pre-configured, ensuring a simple, quick installation for your new telephone system

Supports PSTN and VoIP

Up to 6 traditional PSTN lines can be connected via FXO ports to the Quadro6L - plenty of capacity for supporting existing PSTN lines in most small offices. The Quadro6L also supports VoIP, using your office broadband service and an ITSP account

Fully-featured IP-PBX

The Quadro6L is a complete IP-PBX, with a multitude of features and extensive PBX functionality, including Voice-mail, IVR, Call Routing and many other features. Microsoft Outlook 'Click to Dial' functionality is supported. Optional 3PC (Third Party Call Control) and QCM (Quadro Call

Manager) softphone licenses can also be purchased.

Ideal Multi-branch PBX Solution

The Quadro6L is the cost effective PBX solution for companies with multiple small office branches. Individual branches are connected via SIP, giving zero cost inter-branch calls. All branch PBX's comprise one unified voice system, with unified management - and individual branches can retain their existing PSTN numbers as well as benefiting from low cost VoIP calls.

Low Total Cost of Ownership

The sophisticated functionality of the Quadro6L is available at a surprisingly low cost. As a VoIP capable system, you will see significant reductions in your telephone bills. With your voice and data communications now integrated in one network, your on-going system maintenance costs will be reduced. A more sophisticated telephone system - lower costs!



Quadro6L-C6 bundle - supports 6 users

See details at: www.voip.alloy.com.au



Telephony

Voice Features

Voice Coding G.711, G.723 (5.3, 6.3 kbit/s), G.726 (16, 24, 32, 40 Kbps), G.729A, iLBC (13.3 kbit/s, 15.2 kbit/s); (ITU-T: G.711, G.723.1 Annex A (optional licence), G.726, G.729 Annex A; RFC 3951 iLBC; IETF:ITU-T Q.23, Q.24, Bellcore GR.506, GR.181; ITU-T G.168-2000, 2002; ETSI_300659_1,2,3) NAT traversal (both manually and STUN) VAD, CNG, G.168 echo cancellation

Bandwidth Requirements

Per call WAN bandwidth requirements for the following codecs (non-encrypted/VPN encrypted):

G.711a/G.711u	20 msec	84 kbps/105 kbps
G.726-16	20 msec	37 kbps/59 kbps
G.726-24	20 msec	45 kbps/65 kbps
G.726-32	20 msec	52 kbps/74 kbps
G.726-40	20 msec	60 kbps/80 kbps
G.729a	20 msec	29 kbps/49 kbps
G.723	30 msec	21 kbps/34 kbps
iLBC 3	0 msec	27 kbps/41 kbps

PBX Features

Call blocking, Forwarding, Holding, Transferring
Call relay, Call waiting, Caller ID Detection
Voice mail
Call park, Pickup, Paging, Intercom
Multilevel auto attendant with Interactive Voice Response (IVR) and VoiceXMLv2 support
Voice mail with SMS notification
Distinctive ringing
Speed dialing
Many extension ringing
Receptionist
Call hunting, Hiding Caller ID
Automated Call back from Auto Attendant
Hold music
Call statistics
Do Not Disturb service
Unified messaging
3-way conferencing
Hotline service
T.38 fax, fax relay and clear channel fax
Unified Fax Messaging
Busy auto-redial
Directory assistance
Dial plans (call routing)
Time of day dialing
Call Queue

Call Signaling

SIP on the WAN and LAN side (RFCs: 3261, 3263, 3265, 3311, 3323, 3324, 3325, 3428, 3515, 3578, 3581, 3725, 3891, 3892, 3842, 3856, 3863, 4028, 4235)
SDP (RFC 2327)
RTP (RFCs: 1889, 1890, 2833, 3389, 3550, 3551, 3555, draft-ietf-avt-rtc2833bis-05, draft-ietf-avt-rtc-ilbc-05), in band and out of band signaling support
RTP Proxy
Fax over IP (ITU-T: T.4, T.30, T.38, V.17, V.21, V.27 ter, V.29)

POTS Signaling

Loop start
FSK and DTMF Caller ID support

Connectivity

Extensions

Up to 8 physical LAN IP Phone extensions
Up to 70 virtual extensions supported
Remote extensions supported
All extensions can be registered on several SIP servers

LAN IP Phones

A maximum of 8 SIP phones supported
Remote IP extensions may be enabled for all SIP phones

System Capacity

Total of 8 simultaneous VoIP/PSTN calls with external parties
Unlimited station to station calling for IP phones
Up to 4 simultaneous calls through a VPN

Premise Connections

6 FXO ports (RJ11)
1 Ethernet 10/100Base-T port (RJ45)

Uplink Connection

1 WAN 10Mbps Ethernet 10Base-T (RJ-45)
1 LAN 10/100Mbps Fast Ethernet 100Base-TX (RJ-45)

Billing

Radius Client (RFCs: 2865, 2866)
CDR via 3PCC (optional) Licence

Internet

STUN/NAT traversal (RFC 3489)
IPSec VPN with DES, 3DES and AES encryption in tunnel mode (RFCs: 2402, 2406, 2409). Manual and automatic IKE key support
PTTP VPN
L2TP VPN
Firewall security via:
NAT (Network Address Translation)
IDS
Policy and service-based filtering
Stateful inspection firewall
DHCP server on the LAN side
DHCP client on the WAN side
DNS server with forwarding functionality
SNTP (Simple Network Time Protocol) server/client for computer clock synchronization
PPPoE connection to the ISP with PAP/(MS)CHAP authentication
IP DIFFSERV for QoS
Mail client to send voice messages as e-mail attachments (.wav) and system notifications
DNS (DYNDNS) support with third party
Port forwarding
Port translation

System

Management

Multilingual WEB interface accessible from LAN and WAN (HTTP/HTTPS), the WAN management access can be switched off
Password control
Remote diagnostics and software upgrade
Auto-provisioning
VoIP Carrier Wizard
Download/restore configuration
Legible and editable configuration files
Auto-configuration of IP phones via TFTP
SNMP Monitoring
Third Party Call Control XML licence available to order
Quadro Call Manager (OCM) licence available to order
Reset button with factory reset option
Custom Language Pack
Outlook Feature

Diagnostics/Testing

LEDs: Busy, Info, Fault, USB, LAN, WAN, Line 1, Line 2
IP Call Quality Rating
Remote testing and VoIP diagnostics
Power-up diagnostics
Loop-back testing

Environmental

Physical Dimensions

Desktop devices, wall-mountable:
Measurements: 19.2 (W) x 15.8 (D) x 4.5 (H) cm
Weight: 850 g

Conditions

41°F - 104°F (5°C - 35°C) operating temperature
41°F - 140°F (5°C - 60°C) storage temperature
5% - 90% non-condensing humidity

Power Supply

Input 100 - 240 VAC; 50/60 Hz; 0.5 A
Output 12.0 VDC; 1.5 A

Regulatory Compliance

Safety: UL 60950; CSA 22;
EMC: FCC Part 15 Class A;
EN55022 Class A, EN55024;
Telecom: CTR21/TBR21, Telepermit, A-Tick

Certification:

For Australia New Zealand, Brazil, Canada, European Community, Mexico, Russia, USA



N866

Quadro IP-PBX are fully A-Tick compliant for use in Australia



ME06



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Ordering Codes

Unbundled System

Quadro6L: Unbundled Quadro6L

Bundled Systems

Quadro6L-C4 includes: Quadro6L IP-PBX, POEGEM8T 8 port Switch, 4x snom300 IP Phones

Quadro6L-C5 includes: Quadro6L IP-PBX, POEGEM8T 8 port Switch, 5x snom300 IP Phones

Quadro6L-C6 includes:

Quadro6L IP-PBX, POEGEM8T 8 port Switch, 6x snom300 IP Phones

Quadro6L-C7 includes:

Quadro6L IP-PBX, POEFEM24T2SFP 24 port PoE Switch, 7x snom300 IP Phones

Quadro6L-C8 includes:

Quadro6L IP-PBX, POEFEM24T2SFP 24 port PoE Switch, 6x snom300 IP Phones



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