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# QuadroM E1-T1 Dual Port Gateway

## Expanding Call Capacities for an Expanding Business

1.2

DUAL PORT VOIR GATEWAY

The QuadroM E1-T1 Dual Port Gateway continues the Epygi tradition of "smart", affordable VoIP products geared to helping businesses bridge the gap between Internet Telephony and PSTN. Featuring double the call capacity of the QuadroM E1-T1, it helps businesses expand their phone systems with improved sound quality and performance. Thirty channels of compressed codec on the QuadroM E1-T1 30 and sixty channels on the QuadroM E1-T1 60 with new architecture to insure these improvements as well as offering better application integration.

The QuadroM includes call routing and auto attendant capabilities, as well as voice prioritization over data and sophisticated firewall and security elements. It is constructed with sturdy rack mountable housing that permits the inclusion of a built in power source and cooling fan for heavy duty operation and extended life span. In all, a powerful choice for growing companies seeking to maximize the benefits of VoIP.

#### IP Enable your Legacy PBX

Quadro M-ETH 60

Epygi offers cost effective additions to an existing telephony network to bring the true benefits of VoIP to you. Integrating a QuadroM E1/T1 Gateway into an existing network will allow for inexpensive communication between multi-site locations.

#### Flexible Call Routing

The QuadroM Gateway can make intelligent routing decision depending on the type of call and destination digits. This allows the gateway to make Least Cost Routing decisions on the fly. Allowing legacy or pure IP solution to take advantage of the VoIP savings and flexibility.

#### The Power of the QuadroM

Increased call capacity Improved sound quality Cost effective system administration Longer life cycle

## What are Your VoIP BENEFITS?

- Simple Installation
- Cost Effective VolP Migration
- Reliable Epygi VolP Technology
- Cost Effective Call Routing



To order - Call 1-213-825-1020 or email - sales@teleprimeacd.com

### Telephony

Voice Features Voice Coding G.711, G.726 (16, 24, 32, 40 Kbps),G.729, iLBC (13,33 kbit/s, 15,2 kbit/s); (RFC 3951, ITU-T: G711, G.726, G729 Annex A; IETF; ITU-T Q.23, Q.24, Bellcore GR.506, GR.181; ITU-T G.168-2000, 2002; ETS 300659 1,2,3; A-law, U-law coding) NAT traversal (both manually and STUN) VAD, CNG, G.168 echo cancellation Voice Transcoding

Bandwidth Requirements

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

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G.711	20 msec	84 kbps
G.726-16	20 msec	37 kbps
G.726-24	20 msec	45 kbps
G.726-32	20 msec	52 kbps
G.726-40	20 msec	60 kbps
G.729a	20 msec	29 kbps
ilbC	30 msec	27 kbp

**PBX** Features

- Call statistics Call routing Auto Attendant IVR system (custom AA, custom
- messages upload, create scenarios with EpygiXML) T.38 fax relay and clear channel fax

Call Signaling

All Gightaining SIP (RFCs: 3261, 3263, 3265, 3311, 3323, 3324, 3325, 3428, 3515, 3578, 3581, 3725, 3842, 3856, 3863, 3891, 3892, 4028, 4235) SDP (RFC 2327) RTP (RFCs: 1889, 1890, 2833, 3389, 3550, 3551, 3555, draft-ietf-avt-rfc2833bis-05, draft-ietf-avt-rtp-ilbc-o5), H.323 (ITU-T: H.225.0, H.235, H.245,H.323, H.450.x) Fax over IP (ITU-T: T4, T30, T38, V17, V21, V27 ter, V29)

#### POTS Signaling

Loop start

CCS Signaling ITU-T: Q.921, Q.931 (DSS1), Q.932, Q.951; ETSI ETS300 102 (NET5); ECMA-143-(QSIG); SR-NWT-002120 (NI2) NTT INS1500 for Japan PRI switch types: DSS1, NET5, QSIG, 5ESS. Ni2 NTT ins1500 DMS 100

CAS Signaling CAS (MELCAS, ITU, ITU-T2, ITU-T: Q.400, Q.411, Q.421, Q.422, Q.440-Q.442, Q.450-Q.452, Q.454, Q.455, Q.455, Q.457, Q.458, Q.460-Q.468, Q.470-Q.476 Types: Loop Start, Ground Start; E&M Delay Dial, E&M Wink Start, E&M Immediate Start, E&M FGD R2 DTMF, R2 compelled, R2 noncompelled, R2 compelled with ANI, R2 non-compelled with ANI; R2 Parameters for Brazil, Mexico etc.) ANSI T1,403.02-199, T1,403.02a-2001

#### DTMF

In band & out of band signaling supp

#### Connectivity

Premise Connections 1 short-loop FXS port (RJ11) 1 Ethernet 10/100BASE TX port to connect a PC for configuration purposes (RJ45)

Uplink Connection 2 E1/T1 ports to the Central Office (RJ45) 1 Ethernet 10/100BASE TX (RJ45)

#### Billing

Radius Client (RFCS: 2865, 2866)

#### Internet

IP phones

switch

LAN

router

LAN

LAN

STUN/NAT traversal (RFC 3489) Firewall security via: NAT (Network Address Translation) Policy and service-based filtering 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 DNS support Port forwarding Port translation

VPN(IPSec/PPTP/L2TP) support

LAN

#### System

- Management WEB interface accessible from LAN and WAN (HTTP/HTTPS), the WAN management access can be switched off User rights management service Password control SNMP Support Remote diagnostics & software upgrade Download/restore configuration Reset button with factory reset option Custom Language Pack 3PCC – API (ActiveX) for developing programs which will control and manage calls to/from Quadro (for hotels, medical/law offices, consulate etc.)
- Diagnostics/Testing LEDs: Busy, Info, Fault, LAN, WAN, Line E1/T1 diagnostics, Loop settings Remote testing Power-up diagnostics

### Environmental

Physical Dimensions Desktop devices, wall-mountable: Measurements: 10.04" x 8.27" x 1.77" (25.5 x 21.0 x 4.5 cm) Weight: 22.6 ounces (640 g) Rack-mountable devices: Measurements: 19" x 7.56" x 1.77" (48.0 x 19.2 x 4.5 cm) Weight: 2.47 lbs. (1090 g)

#### Conditions

41°F - 104°F (5°C - 40°C) operating temperature 41°F - 140°F (5°C - 60°C) storage temperature 5% - 90% non-condensing humidity

#### Power Supply

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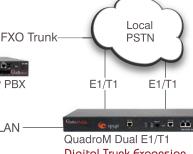
IP PBX

LAN

firewall

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

#### **Regulatory Compliance EMC**: CFR 47, PART 15, SUBPART B CLASS A Telecom: TBR12/TBR13; AS/ACIF



**Digital Trunk Expansion** 



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Technical Data: QuadroM-E1/T1 Dual Version 4.1.x



Admin PC