



ANT Quadrom GR

The QuadroM E1/T1 is the complete PSTN/VoIP gateway for growing small businesses that want to establish for example a corporate telephone network.

Connected over an E1/T1 voice trunk for up to 24 (T1) or 30 (E1) concurrent calls to a PBX or directly to the local PSTN and via Ethernet to the Internet, the QuadroM E1/T1 seamlessly combines the cost reducing benefits of IP technology with the ubiquity of the PSTN, which opens a multitude of scenarios for free phone calls all over the world.

### **Integrated Internet Access**

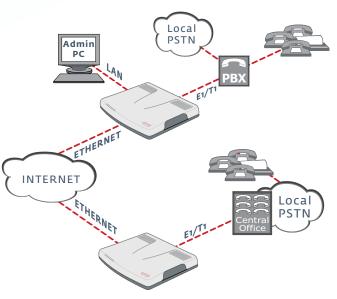
The QuadroM  $E_1/T_1$  VoIP Gateway allows voice Internet access with firewall security, including NAT, policy and service based filtering .

The QuadroM E1/T1 shapes network traffic by prioritizing voice over data to ensure optimal voice quality at all times and is compatible with legacy equipment configurations like standard PBXs and routers.

## **Broad Mangement Features**

PHONE

The included RADIUS client functionality gives detailed information about every call and allows both acurate and easy billing. Further, statistic information about the current and former IP traffic is provided.





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, µ-law coding)

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):		
	G.711a/G.711u	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 T. 38 fax relay and clear channel fax

Call Signaling

- SIP (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-rfc2833bis-05, draft-ietfavt-rtp-ilbc-o5), H. 323 (ITU-T: H. 225.0, H. 235, H. 245, H. 323, H. 450.
- x, Q.931, Q.932) 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.951; ETSI ETS300 102 (NET5); ECMA-143-(QSIG); SR-NWT-002120 (NI2) NTT INS1500 for Japan PRI switch types: DSS1, NET5, QSIGg, 5ESS, NTT ins1500 DMS 100

CAS Signaling CAS (MELCAS, ITU, ITU-T2, IUT-T: Q.400, Q.411, Q.421, Q.422, Q.440-Q.442, Q.450-Q.452, Q.454, Q.455, Q.457, Q.458, Q.460-Q.468, Q.470-Q.476 Types: Loop Start, Ground Start; Fer M.Dauvisi, Ger Multicle Start, Fer M. Immedia EGM Delay Dial, EGM Wink Start, EGM Immedi-

ate Start, R2 DTMF, R2 compelled, R2 non-compelled, R2 compelled with ANI, R2 non-compelled with ANI; R2 Parameters for Brazil, Guatemala and Mexico etc.)

ANSI T1.403.02-199, T1.403.02a-2001

#### DTMF

In band and out of band signaling support

# Connectivity

Premise Connections

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

#### Uplink Connection

1 E1/T1 port to the Central Office (RJ45) 1 Ethernet 10BASET (RJ45)

#### Billing

Radius Client (RFCS: 2865, 2866)

### Internet

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/cli-ent for computer clock synchronization PPPoE connection to the ISP with PAP/(MS)CHAP authentication IP DIFFSERV for QoS DNS support Port forwarding Port translation

# System

#### Management

WEB interface accessible from LAN and WAN (HTTP/HTTPS), the WAN management access can be switched off Password control

Remote diagnostics and software upgrade Download/restore configuration Reset button with factory reset option

Custom Language Pack

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

**Regulatory Compliance** UL 60950; CSA 22; Safety: FCC Part 68, FCC Part 15 Class B; EMC: EN55022, EN55024; Telecom: TBR12, TBR13

### Certification:

For Australia, Brazil, Canada, European Community, Mexico, USA







LISTED

US E242666







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