

Rural Telephony UAD

Affordable Network Efficiency



The Rural Telephony Universal Access Devices (UADs) are remotely configurable, low-cost, high-speed VoIP routers, which support SIP or (EdgeAccess' proprietary protocol) available in two and four port configurations. Each unit includes dual 10/100 ethernet ports, NAT, DHCP, TOS/DifServ Quality of Service, and two or four VoIP ports respectively. Both the RT-2 and RT-4 devices support EdgeAccess Voice Performance Enhancement Protocol (vPEP) when in VSP mode. See *vPEP datasheet for more information.*

Software

Speech

- Compression algorithms: ITU G. 711, G.723.1, and G.729A/B.
- Hybrid echo cancellation G.168 (16 ms)
- Auto switch between Fax and voice
- DTMF tone detection/regeneration
- Comfort Noise Generation (CNG)
- User programmable Call Progress detection/generation
- Voice Activity Detection (VAD)

Fax

- Facsimile protocol (option): T.38
- Real-time fax over IP
- DTMF tone detection/regeneration

Management Tools

- HTTP Server
- TFTP and flash memory for remote software download and upgrade

SIP Protocol Stack

- Compliant with SIP v2.0 (RFC 3261)

Satellite Protocol Compression

- Edge Access Virtual Service Protocol (VSP) Low Overhead Protocol

Hardware

Digital Signal & Control Processors Processor

- High Performance SOC (x86) with MMX Support for Network Applications
- High Performance SOC for Digital Signal Processing (DSP)
- Low power, 1.8 Core Voltage, 3.3V I/O
- 16M Flash
- 64M System Memory

I/O

- 2 Standard 10/100 BaseTx RJ 45 interface for 2 and 4 FXS models
- 2 or 4 RJ 11 Loop Start interfaces for FXS

Mechanical, Environment & Power

- Dimension: L x W x H = 17cm x 16cm x 4cm
- Operating temperature: 32 to 122 degrees F (0 degrees C to 50 degrees C)
- Operating humidity: 10% to 95% (non-condensing)
- Storage temperature: 14 to 140 degrees F (-10 to 60 degrees C)
- AC-to-DC power supply:
 - Input 100-240 VAC, 50-60Hz, 0.8A
 - Output 5 VDC, 4A (20W)

Compliant

- CE
- FCC part 15 A

	FXS
Signaling:	Loop Start / DTMF
Line Impedance:	600 Ω 900 Ω Complex line Impedance
Insertion Loss:	-0.20 to +0.20 dB nominal
Frequency Response:	200Hz – 3400Hz
Return Loss:	26 dB (min)
Input Level Adjustment:	-8 dB to + 8 dB
Output Attenuation:	0 dB to 13 dB
Longitudinal Balance:	≥ 40 dB (200-3400 Hz)
Loop Current:	20 mA (stby-typical)
Ring Voltage:	60V (min)

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