CellPipe® 22A Series

When you need to offer cost-effective high-speed DSL access, the CellPipe® 22A is an ideal CPE platform for your small business and residential customers. This router/bridge solution uses ADSL technology to deliver speeds up to 8 Mbps, which supports a full set of "always-on" Internet, data and video services. The CellPipe® 22A also gives you QoS capabilities for reliable high performance and supports robust routing and management features that streamline operations.

Applications

- High-performance data services, including intranets, extranets, videoconferencing, network gaming, VoIP, Web hosting and fast Internet access

- Leading-edge video services, including streaming multimedia, broadcast TV, pay-per-view and video-on-demand—enabling today's first full-service networks

- Small businesses and residences, including SOHOs, Multiple Dwelling Units, Multiple Tenant Units and other in-building installations

Features

- **High speed, high bandwidth**— Provides high-speed connections over a single copper pair with data rates up to 8 Mbps downstream and 1 Mbps upstream

- **Multi-service support**—Enables a broad range of advanced video and data services, including high-speed Internet access (Basic POTS service can be supported using voice splitters)

- **Easy LAN connectivity**—Simplifies service start up: the CellPipe® 22A-GX and 22A-BX provide one 10BaseT LAN interface and one USB interface which can be used simultaneously while connected to two different computers. The CellPipe® 22A-EX and 22A-FX offer 4 10BaseT LAN interfaces with an Ethernet switch on board

- **Multiple Annex A models for ADSL over POTS**—CellPipe® 22A-GX and CellPipe® 22A-EX for North America, CellPipe® 22A-GX-E and CellPipe® 22A-EX-E for Europe and CellPipe® 22A-GX-UK and CellPipe® 22A-EX-UK for United Kingdom

- **Various Annex B models for ADSL over ISDN for use in Europe**— CellPipe® 22A-BX and CellPipe® 22A-FX

- **Quality of Service capabilities**— including UBR, CBR and VBR, enable premium services backed by SLAs

- **Multi-protocol support**—Offers flexibility and investment protection

- **Simple configuration**—Includes a Web-based GUI for ease of use— and eliminates the hassle of ATM protocol configuration

- **"Always-on" connection**—Delivers high-speed access with no log-on or dial-in

Benefits

- **Reduced costs**—Cut overhead and deployment costs by leveraging the existing infrastructure and streamlining deployment

- **Application flexibility**—Support a full spectrum of carrier-class data and video services—while maintaining POTS with voice splitters

- **Unlimited potential**—Expand and upgrade seamlessly as new applications emerge

- **Increased speed**—Deliver data rates up to 200 times faster than traditional dial-up modems

- **Boost user efficiency**—Provide continuous high-speed "always-on" connections to multimedia applications

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Specifications

Hardware Specifications

1. **Dimensions**
   7.1 in x 5.7 in (18 cm x 14.5 cm)

2. **Weight**
   11 ounces (300 grams)

3. **LAN Interface**
   22A-GX / 22A-BX: 1 USB port and
   1 10/100 Ethernet Port
   22A-EX / 22A-FX: 4 port 10/100
   Ethernet Switch

4. **Operating Environment**
   Temperature: 32 – 120°F (0° – 50°C)
   Humidity: 5 – 95% non-condensing

5. **Power Requirement**
   AC Voltage: 100 – 120 VAC,
   200 – 240 VAC
   Frequency: 50/60 Hz
   Power Consumption: 15 W maximum

6. **Safety Compliance**
   UL 1950, CSA C22.2, EN60950

7. **EMC/RFI Compliance**
   FCC Part 15 Class B, EN55022/CISPR
   22 Class B, EN50082-1, CE, VCCI

8. **WAN Interface**
   One ADSL interface (RJ-11 jack for annex
   A models, RJ 45 for annex B models)

9. **Line Impedance**
   100 ohms

10. **Line Code**
    DMT

11. **Compliance**
    ANSI T1E1.413 issue 2, ITU-T G.DMT
    (G.992.1 annex A or annex B), G.Lite
    (ITU G.992.2)

12. **Line Speed**
    Full Rate (G.DMT): 8 Mbps downstream,
    1 Mbps upstream
    G.Lite: 1.5 Mbps downstream,
    512 Kbps upstream

13. **Analog Line Support**
    Supports the use of an external splitter

Software Specifications

1. **ATM/ADSL**
   G.DMT, T1.413 i2 /Fast and Interleaved
   Trellis Code
   AAL5
   UBR/GFR
   CBR
   VBR
   Multiple VCs Support
   UNI 3.1/4.0, SVC
   OAM F4/F5 Loopback

2. **Bridging/Routing**
   802.1d Transparent, Learning Bridge
   Spanning Tree (STP)
   RFC 2684 – Bridged
   RFC 2684 – Routed
   PPPoE
   PPPoA
   IPoA
   IPv4, TCP, UDP, ICMP, ARP
   RAPR as per RFC 0903
   Virtual IP Interface
   IP Routing – RIP v1 and v2
   Static Routing
   DHCP Server/Client/Proxy
   DNS Proxy
   IP Multicast, IGMP Proxy

3. **Security**
   NAT
   PPP with PAP/CHAP
   Raw/IP Filtering
   SPI
   VPN: L2TP/PPTP Pass Through
   DoS
   ID/Password Authentication

4. **Management**
   SNMP v1 and MIB II (RFC 1213)
   HTTP Server
   Auto VCI/VPI Detect
   Command Line Interface
   FTP, TFTP
   TELNET
   ZIPB (Zero Installation PPP Bridge Mode)
   Surfing Profile
   Layer 2 Management Protocol
   (without IP)
   LEDs
   TR-37
   Dying Gasp

5. **Host USB Drivers (22A-GX)**
   Windows 98SE, 2000, ME, XP
   Concurrent USB and Ethernet

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