

# CPVA502+ AND CPVA502+W

Telsey's CPVA 502+ and CPVA502+W enable Broadband Network Operators to easily connect residential customers to their ADSL/ADSL2/ADSL2+ networks and combines two Ethernet10/100 BaseTX and one USB interface for home networking with an integrated VoIP engine.

CPVA502+W furthermore offers a wireless access point 802.11b/g intended for the efficient delivery of Fast Internet, Voice over IP services and IP video services to residential and SOHO users.

## KEY FEATURES

- >> Integrated ADSL/ADSL2/ADSL2+ modem/router
- >> Two Ethernet 10/100 BT and one USB port for home LAN with superior layer 3 routing features.
- >> Integrated IEEE 802.11b/g access point
- >> One FXS interface to connect analog telephones
- >> One VoIP call
- >> Full choice of VoIP signalling protocols (H323, SIP, MGCP)
- >> QoS Management
- >> Remotely manageable and upgradable through an integrated web page, Telnet, TFTP, DHCP,SNMP, TR-069
- >> Autosinstalling with VoIP forwarding

## BENEFITS

- >> No external ADSL Modem is needed. Multiple user devices (PCs, Set Top Boxes, telephones) can access broadband services through the same DSL line.
- >> Service providers can efficiently deliver through existing telephone lines, multimedia services such as VoIP, fast Internet surfing, gaming on demand and e-learning within the domestic environment.
- >> Wireless home LAN gives customers the full mobility inside the house and avoids new cabling.
- >> Preserve users' current telephone equipment without the need to add expensive external VoIP adapters.
- >> End users benefit from Class 5 supplementary services, fax and modem services over IP.
- >> Maximum flexibility for a quick integration with operators' network infrastructure.
- >> Provides excellent quality of service into a bundled voice,data and FMC environment
- >> Make mass market easy and quick.
- >> Thanks to this incomparable and exceptional feature, patented by Telsey, Telecom Operators are benefiting from a terrific reduction of installation costs while end users can make the most of a complete plug and play experience and a smooth switch to VoIP the instant the service is available. Rewiring of the home telephone plant, to get a first line VOIP service throughout the house, is avoided.



\*The 'Wi-Fi CERTIFIED' logo is a certification mark of the Wi-Fi Alliance

**CPVA502+ AND CPVA502+W****TECHNICAL HIGHLIGHTS****BROADBAND INTERFACE**

- > ADSL integrated modem compliant with:
  - > ANSI T1.413 I2
  - > ITU Automode
  - > G.992.2.G.Lite
  - > G.992.1 Annex A, Annex B - G.dmt
  - > Up to 8 PVC UBR, VBR, CBR
  - > LLC/ SNAP for bridged/routed PDUIS (RFC 2684, RFC 1483)
  - > PPPoE (RFC 2516), PPPoA (RFC 2364)
- > PPPoE (RFC 2516), PPPoA (RFC 2364)
  - > G.992.3 (ADSL2)
  - > G.992.5 (ADSL2+)
  - > IpoA
  - > MER (a.k.a. IP over Ethernet over AAL5)
  - > User authentication PAP (RFC 1334) and CHAP (RFC 1994)

**VOICE**

Simultaneous Voice Calls	> 1
Analog Interfaces	<ul style="list-style-type: none"> <li>&gt; 1 x FXS. RJ -11 connectors.</li> <li>&gt; Dial mode supported: DTMF</li> <li>&gt; Tones: customizable</li> <li>&gt; Ringing voltage: 35 Vrms, Sine wave</li> <li>&gt; Ringing frequency: 25 Hz default (frequency and cadence programmable for each FXS interface)</li> <li>&gt; On-Hook voltage: 48 V nominal</li> <li>&gt; Off-hook current: 22 mA nominal (other values programmable)</li> <li>&gt; Terminating impedance: 600 Ohm default (other impedances programmable)</li> <li>&gt; Loop Signaling: Loop Start</li> </ul>
VoIP Protocols	> H.323 v.4, SIP RFC 3261, MGCP
Properties	<ul style="list-style-type: none"> <li>&gt; Echo cancellation G.168</li> <li>&gt; Silence suppression/comfort noise generation</li> <li>&gt; Modem / fax passthrough</li> </ul>
Voice Codecs	> G.711 Alaw / Ulaw, G.729A
Others	<ul style="list-style-type: none"> <li>&gt; Autoinstalling features with VoIP Forwarding (optional)</li> <li>&gt; Dial Plan customizable</li> </ul>

**CLASS 5 SERVICES**

H323, SIP, MGCP	<ul style="list-style-type: none"> <li>&gt; Generic Signaling</li> <li>&gt; Call Hold</li> <li>&gt; Message Waiting</li> <li>&gt; Call Transfer (Unconditional, on Busy, on No Reply)</li> <li>&gt; Call Transfer</li> <li>&gt; Call Waiting</li> <li>&gt; 3 way conference</li> </ul>
Caller I.D.	> V.23 Modem and DTMF transmitter on board

**DATA**

Domestic LAN Interfaces	<ul style="list-style-type: none"> <li>&gt; 2 Ethernet port switch 10/100 BaseT half/full duplex autonegotiating. RJ-45 connectors</li> <li>&gt; 1 USB 1.1 device connector</li> </ul>
Layer 3	<ul style="list-style-type: none"> <li>&gt; NAT/ PAT (RFC 1631)</li> <li>&gt; RIPv2</li> </ul>
QoS	> ATM and IP QoS management support
WLAN Access Point	<ul style="list-style-type: none"> <li>&gt; Compliant with IEEE 802.11, IEEE 802.11b, IEEE 802.11g</li> <li>&gt; WPA supported</li> <li>&gt; Support of QoS mechanism i.e. 802.11e (WME)</li> <li>&gt; 8 Traffic Category levels managed,</li> <li>&gt; EDCF low priority and HCF high priority</li> <li>&gt; Support of 802.11i</li> </ul>

**MANAGEMENT**

- > Integrated Web Server
- > DHCP client/server
- > TFTP client
- > Telnet
- > TR-069

**POWER SUPPLY**

- > 12 Vdc +/- 15%, 10 W
- > AC/DC adapter 230 Vac, 50 Hz or 110 Vac, 60 Hz provided

**PHYSICAL DIMENSIONS**

- > Width 150 mm; Depth 140 mm; Height 38 mm
- > Wall mountable

**ENVIRONMENTAL CONDITIONS**

- > Operation temperature: 0 - 50°C
- > Storage temperature: 0 - 70°C
- > Humidity: 85% (non condensing)

**Disclaimer**

All statements, technical information and recommendations contained in this documentation have been carefully checked for reliability; however no responsibility is assumed for inaccuracies. The information contained in this documentation is subject to change without notice.