

Telsey CPVA642EVA is a unique in the market Home Gateway that, beyond powerful ADSL2+ routing capabilities and VoIP telephone adapter functionalities, bundles an Enhanced Wi-Fi Video Access Point providing an innovative Wi-Fi 802.11 a/b/g/n MIMO solution with internal antennas that beats the barrier of home cabling for multiple High Definition IP TV streaming inside the houses.

Joined with Telsey STA-EVA, the Ethernet Enhanced Wi-Fi Video Adapter to be connected to Set Top Boxes, Telsey CPVA642EVA is the ADSL2+ Home Gateway fitting the needs of operators who provide bundled broadband services to residential and business customers enabling multiple High Definition video and broadband data streaming through Wi-Fi inside houses or offices.

Key Features	Benefits
>> <b>Integrated ADSL2+ modem router</b>	>> All in one solution ADSL2+, VoIP, data and Enhanced Wi-Fi Video Access Point
>> <b>4 Ethernet RJ-45 ports 1 USB master port 1 USB slave port</b>	>> The superior layer 3 routing features allow service providers to efficiently deliver through existing telephone lines innovative multimedia services such as IP TV, VoIP, fast Internet surfing, gaming on demand and e-learning within the domestic environment.
>> <b>2 simultaneous VoIP calls (voice, fax) through POTS RJ-11 FXS interfaces</b>	>> Preserve user's telephone equipment without the need to add external external VoIP adapter. End users benefit from Class 5 supplementary services, fax and modem services over IP network
>> <b>Full choice of VoIP signalling protocols and codecs</b>	>> Maximum flexibility for quick integration with operators' network infrastructure
>> <b>IEEE 802.11 a/b/g/n access point. 802.11n Draft 2.0 compliant. 2TX streams + 3RX antenna array</b>	>> High performance WiFi link up to 300 Mbps PHY rates allow HD IPTV multiple streaming inside the house, beating the barrier of ethernet cables.
>> <b>Internal multiple antennas.</b>	>> Internal antennas make the device compact and more appealing, preserving at the same time performances.
>> <b>Dual band operation (2.4 GHz and 5GHz)</b>	>> More RF channels available to automatically find the best frequencies to use and avoid interferences.
>> <b>High performances, optimised for low BER</b>	>> Provides assured 50-100 Mbps with <0.1% BER in a typical 150 m <sup>2</sup> flat.
>> <b>Excellent wireless, ATM and IP QoS management</b>	>> It provides superior Quality of Services in a bundled voice, data, gaming and video services environment.
>> <b>Easy installation and link quality survey</b>	>> Automatic configuration protocol for easy pairing of devices, Vu meter LEDs to help optimal positioning.
>> <b>UPnP and Wireless Protected Set up</b>	>> Connecting Consumer Electronic and Wi-Fi devices is easy and quick, allowing multisharing contents inside the house.



## Technical Characteristics

Broadband Interface		
ADSL/ADSL2/ADSL2+	<ul style="list-style-type: none"> <li>&gt;&gt; ANSI T1.413 I2</li> <li>&gt;&gt; ITU Automode</li> <li>&gt;&gt; G.992.2 G.Lite</li> <li>&gt;&gt; G.992.1 Annex A/Annex B - G.dmt</li> <li>&gt;&gt; G.992.3 (ADSL2)</li> <li>&gt;&gt; G.992.5 (ADSL2+) Annex M and Annex L</li> <li>&gt;&gt; UBR, CBR, rtVBR, nrtVBR</li> <li>&gt;&gt; OAM (F4/F5) supported</li> </ul>	<ul style="list-style-type: none"> <li>&gt;&gt; Up to 16 PVC</li> <li>&gt;&gt; LLC/SNAP for bridged/routed PDU's (RFC 2684, RFC 1483)</li> <li>&gt;&gt; PPPoE (RFC 2516); PPPoA (RFC 2364)</li> <li>&gt;&gt; User authentication PAP (RFC 1334) and CHAP (RFC 1994)</li> <li>&gt;&gt; IPoA</li> <li>&gt;&gt; Bridge</li> <li>&gt;&gt; MER (VCMUX, LLC/SNAP-Bridging)</li> </ul>
Data		
Domestic LAN Interfaces	4 Ethernet 10/100 BaseT half/full duplex autonegotiating, RJ-45 connectors 1 USB 1.1 slave port type B receptacle 1 USB 2.0 master port type A receptacle	
Layer 3	<ul style="list-style-type: none"> <li>&gt;&gt; NAT/PAT (RFC 1631)</li> <li>&gt;&gt; Static Routing</li> <li>&gt;&gt; RIPv2</li> </ul>	>> Parental Control
Firewalling	<ul style="list-style-type: none"> <li>&gt;&gt; Access Control List</li> <li>&gt;&gt; Packet filtering</li> <li>&gt;&gt; Application content filtering</li> </ul>	<ul style="list-style-type: none"> <li>&gt;&gt; Stateful inspection</li> <li>&gt;&gt; DMZ support</li> <li>&gt;&gt; Defence against Denial of Service attacks</li> </ul>
IP VPN	<ul style="list-style-type: none"> <li>&gt;&gt; Encryption algorithm: DES, 3DES</li> <li>&gt;&gt; Authentication algorithm : MD5 , SHA-1</li> <li>&gt;&gt; Encapsulation Security Payload (ESP)</li> </ul>	<ul style="list-style-type: none"> <li>&gt;&gt; Authentication Header (AH)</li> <li>&gt;&gt; Key Management : IKE, Manual, Pre-shared Keys</li> </ul>
QoS	ATAM and IP QoS supported.	
Other	<ul style="list-style-type: none"> <li>&gt;&gt; DHCP server</li> <li>&gt;&gt; TFTP client</li> </ul>	>> Syslog client
Wi-Fi interface		
WiFi standards	<ul style="list-style-type: none"> <li>&gt;&gt; 802.11n draft 2.0</li> <li>&gt;&gt; 802.11b, 802.11g</li> </ul>	<ul style="list-style-type: none"> <li>&gt;&gt; 802.11a, 802.11h</li> <li>&gt;&gt; 802.11e, 802.11d, 802.11i, 802.11j</li> </ul>
Frequencies	<ul style="list-style-type: none"> <li>&gt;&gt; 2.4-2.5 GHz</li> <li>&gt;&gt; 5.15-5.85 GHz</li> <li>&gt;&gt; Automatic Channel selection algorithm</li> </ul>	
Operating modes	<ul style="list-style-type: none"> <li>&gt;&gt; 802.11bgn @ 2.4 GHz (compatible with existing 802.11bg WiFi devices)</li> <li>&gt;&gt; 802.11ahn @ 5 GHz (compatible with existing 802.11ah WiFi devices)</li> </ul>	<ul style="list-style-type: none"> <li>&gt;&gt; 802.11n @ 2.4 GHz (high performance mode)</li> <li>&gt;&gt; 802.11n @ 5 GHz (high performance, low interference mode)</li> </ul>
PHY features	<ul style="list-style-type: none"> <li>&gt;&gt; 802.11b: 1,2,5,11 Mbps</li> <li>&gt;&gt; 802.11a/g: 6,9,12,24,36,48,54 Mbps</li> <li>&gt;&gt; 802.11n (20MHz): MCS0-15, 32 with Short Guard Interval Support (up to 144Mbps)</li> <li>&gt;&gt; 802.11n (40MHz): MCS0-15, 32 with Short Guard Interval Support (up to 300Mbps)</li> </ul>	<ul style="list-style-type: none"> <li>&gt;&gt; 2T3R mode (2TX streams, 3RX MRC-OFDM rank receiver)</li> <li>&gt;&gt; Space Time Block Code (STBC)</li> <li>&gt;&gt; MSDU/PSDU aggregation</li> <li>&gt;&gt; Link adaptation</li> <li>&gt;&gt; Bluetooth Co-existence</li> </ul>
Antennas	<ul style="list-style-type: none"> <li>&gt;&gt; Three internal high performance dual band antennas</li> <li>&gt;&gt; 2T3R mode with spatial diversity</li> </ul>	
QoS	<ul style="list-style-type: none"> <li>&gt;&gt; 802.11e ( WMM, WMM-PS)</li> <li>&gt;&gt; 4 priority queues (voice, video, data, background)</li> </ul>	
Security	<ul style="list-style-type: none"> <li>802.11i</li> <li>&gt;&gt; WEP64 / WEP128</li> <li>&gt;&gt; WPA / WPA2</li> </ul>	<ul style="list-style-type: none"> <li>&gt;&gt; MAC filtering</li> <li>&gt;&gt; WPS supported with registration button</li> </ul>
Video support		
	<ul style="list-style-type: none"> <li>&gt;&gt; IGMP v3 proxy</li> <li>&gt;&gt; multicast to unicast conversion</li> </ul>	

## 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.

## Enhanced Wi-Fi Video AP - Access Gateways

# CPVA642EVA

Voice	
	<ul style="list-style-type: none"> <li>&gt;&gt; 2 FXS RJ-11 ports</li> <li>&gt;&gt; Up to 2 simultaneous VoIP calls</li> </ul>
FXS Interfaces	<ul style="list-style-type: none"> <li>&gt;&gt; Dial mode supported: DTMF</li> <li>&gt;&gt; Tones: customizable.</li> <li>&gt;&gt; Ringing voltage: 35 Vrms, Sine wave</li> <li>&gt;&gt; Ringing frequency: 25 Hz default (frequency and cadence programmable for each FXS interface)</li> <li>&gt;&gt; REN : 5 per FXS port</li> </ul>
VoIP Protocols	H.323 v.4, SIP RFC3261, MGCP
Properties	<ul style="list-style-type: none"> <li>&gt;&gt; Echo cancellation G.168</li> <li>&gt;&gt; Silence suppression/comfort noise generation</li> <li>&gt;&gt; Modem/fax passthrough</li> </ul>
Voice Codecs	G.711, G.729A
Fax over IP Protocols	T.38
Class 5 service	<ul style="list-style-type: none"> <li>&gt;&gt; Generic Signaling</li> <li>&gt;&gt; Call Hold</li> <li>&gt;&gt; Message Waiting</li> </ul>
Caller I.D.	Through FSK and DTMF
Management	
	<ul style="list-style-type: none"> <li>&gt;&gt; TR-069</li> <li>&gt;&gt; Remote Telnet console</li> <li>&gt;&gt; SNMP</li> </ul>
	<ul style="list-style-type: none"> <li>&gt;&gt; Integrated Web Server</li> <li>&gt;&gt; Upgradeable via TFTP</li> <li>&gt;&gt; Reset Button</li> </ul>
Power Supply	
	12 VDC, with external power adapter 230 Vac, 50 Hz
Physical Dimensions	
	Width 190mm ; Depth 140mm ; Height 34mm ; Weight 500gr. Wall mountable
Environmental Conditions	
	<ul style="list-style-type: none"> <li>Operation temperature : 5 - 45°C</li> <li>Storage temperature : -5 - 55°C</li> </ul>
	Humidity : 85% (non condensing)

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