

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
>> Integrated ADSL2+ modem router	>> All in one solution ADSL2+, VoIP, data and Enhanced Wi-Fi Video Access Point
>> 4 Ethernet RJ-45 ports 1 USB master port 1 USB slave port	>> 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.
>> 2 simultaneous VoIP calls (voice, fax) through POTS RJ-11 FXS interfaces	>> 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
>> Full choice of VoIP signalling protocols and codecs	>> Maximum flexibility for quick integration with operators' network infrastructure
>> IEEE 802.11 a/b/g/n access point. 802.11n Draft 2.0 compliant. 2TX streams + 3RX antenna array	>> High performance WiFi link up to 300 Mbps PHY rates allow HD IPTV multiple streaming inside the house, beating the barrier of ethernet cables.
>> Internal multiple antennas.	>> Internal antennas make the device compact and more appealing, preserving at the same time performances.
>> Dual band operation (2.4 GHz and 5GHz)	>> More RF channels available to automatically find the best frequencies to use and avoid interferences.
>> High performances, optimised for low BER	>> Provides assured 50-100 Mbps with <0.1% BER in a typical 150 m ² flat.
>> Excellent wireless, ATM and IP QoS management	>> It provides superior Quality of Services in a bundled voice, data, gaming and video services environment.
>> Easy installation and link quality survey	>> Automatic configuration protocol for easy pairing of devices, Vu meter LEDs to help optimal positioning.
>> UPnP and Wireless Protected Set up	>> 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"> >> ANSI T1.413 I2 >> ITU Automode >> G.992.2 G.Lite >> G.992.1 Annex A/Annex B - G.dmt >> G.992.3 (ADSL2) >> G.992.5 (ADSL2+) Annex M and Annex L >> UBR, CBR, rtVBR, nrtVBR >> OAM (F4/F5) supported 	<ul style="list-style-type: none"> >> Up to 16 PVC >> LLC/SNAP for bridged/routed PDU's (RFC 2684, RFC 1483) >> PPPoE (RFC 2516); PPPoA (RFC 2364) >> User authentication PAP (RFC 1334) and CHAP (RFC 1994) >> IPoA >> Bridge >> MER (VCMUX, LLC/SNAP-Bridging)
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"> >> NAT/PAT (RFC 1631) >> Static Routing >> RIPv2 	>> Parental Control
Firewalling	<ul style="list-style-type: none"> >> Access Control List >> Packet filtering >> Application content filtering 	<ul style="list-style-type: none"> >> Stateful inspection >> DMZ support >> Defence against Denial of Service attacks
IP VPN	<ul style="list-style-type: none"> >> Encryption algorithm: DES, 3DES >> Authentication algorithm : MD5 , SHA-1 >> Encapsulation Security Payload (ESP) 	<ul style="list-style-type: none"> >> Authentication Header (AH) >> Key Management : IKE, Manual, Pre-shared Keys
QoS	ATAM and IP QoS supported.	
Other	<ul style="list-style-type: none"> >> DHCP server >> TFTP client 	>> Syslog client
Wi-Fi interface		
WiFi standards	<ul style="list-style-type: none"> >> 802.11n draft 2.0 >> 802.11b, 802.11g 	<ul style="list-style-type: none"> >> 802.11a, 802.11h >> 802.11e, 802.11d, 802.11i, 802.11j
Frequencies	<ul style="list-style-type: none"> >> 2.4-2.5 GHz >> 5.15-5.85 GHz >> Automatic Channel selection algorithm 	
Operating modes	<ul style="list-style-type: none"> >> 802.11bgn @ 2.4 GHz (compatible with existing 802.11bg WiFi devices) >> 802.11ahn @ 5 GHz (compatible with existing 802.11ah WiFi devices) 	<ul style="list-style-type: none"> >> 802.11n @ 2.4 GHz (high performance mode) >> 802.11n @ 5 GHz (high performance, low interference mode)
PHY features	<ul style="list-style-type: none"> >> 802.11b: 1,2,5,11 Mbps >> 802.11a/g: 6,9,12,24,36,48,54 Mbps >> 802.11n (20MHz): MCS0-15, 32 with Short Guard Interval Support (up to 144Mbps) >> 802.11n (40MHz): MCS0-15, 32 with Short Guard Interval Support (up to 300Mbps) 	<ul style="list-style-type: none"> >> 2T3R mode (2TX streams, 3RX MRC-OFDM rank receiver) >> Space Time Block Code (STBC) >> MSDU/PSDU aggregation >> Link adaptation >> Bluetooth Co-existence
Antennas	<ul style="list-style-type: none"> >> Three internal high performance dual band antennas >> 2T3R mode with spatial diversity 	
QoS	<ul style="list-style-type: none"> >> 802.11e (WMM, WMM-PS) >> 4 priority queues (voice, video, data, background) 	
Security	<ul style="list-style-type: none"> 802.11i >> WEP64 / WEP128 >> WPA / WPA2 	<ul style="list-style-type: none"> >> MAC filtering >> WPS supported with registration button
Video support		
	<ul style="list-style-type: none"> >> IGMP v3 proxy >> multicast to unicast conversion 	

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"> >> 2 FXS RJ-11 ports >> Up to 2 simultaneous VoIP calls
FXS Interfaces	<ul style="list-style-type: none"> >> Dial mode supported: DTMF >> Tones: customizable. >> Ringing voltage: 35 Vrms, Sine wave >> Ringing frequency: 25 Hz default (frequency and cadence programmable for each FXS interface) >> REN : 5 per FXS port <ul style="list-style-type: none"> >> On-Hook voltage: 48 V nominal >> Off-hook current: 22 mA (other values programmable) >> Terminating impedance: 600 Ohm default (other impedances programmable) >> Loop Signaling: Loop Start
VoIP Protocols	H.323 v.4, SIP RFC3261, MGCP
Properties	<ul style="list-style-type: none"> >> Echo cancellation G.168 >> Silence suppression/comfort noise generation >> Modem/fax passthrough
Voice Codecs	G.711, G.729A
Fax over IP Protocols	T.38
Class 5 service	<ul style="list-style-type: none"> >> Generic Signaling >> Call Hold >> Message Waiting <ul style="list-style-type: none"> >> Call Transfer >> Call Waiting >> Call Transfer
Caller I.D.	Through FSK and DTMF
Management	
	<ul style="list-style-type: none"> >> TR-069 >> Remote Telnet console >> SNMP <ul style="list-style-type: none"> >> Integrated Web Server >> Upgradeable via TFTP >> Reset Button
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"> Operation temperature : 5 - 45°C Storage temperature : -5 - 55°C <ul style="list-style-type: none"> Humidity : 85% (non condensing)

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