

# CPL642W & CPL642

Telsey CPL642W and CPL642 are the Integrated Access devices that allow broadband operators to deploy innovative multi play services through Fiber to the Home (FTTH) approach.

Installed at the premises of residential or small office end users, they enable the deployment of innovative services

like IP High Definition TV, fast internet access, gaming application, security, VoIP and Fixed to Mobile Convergence.

Based on an innovative Wi-Fi 802.11 b/g MIMO approach with internal antennas, they allow beating the barrier of home cabling inside the house for IP TV streaming.

## KEY FEATURES

- » Integrated optical transceiver for multimode and single mode optical transmission
- » 4 Ethernet RJ-45 ports  
1 USB master port  
1 USB slave port
- » 2 simultaneous VoIP calls (voice, fax) through POTS RJ-11 FXS interfaces
- » Full choice of VoIP signalling protocols and codecs
- » IEEE 802.11b/g access point (for CPL642W version) with internal multiple antennas; ready for 802.11n
- » QoS management
- » Remote Management and Upgrade through TR-069, Telnet, SNMP, TFTP, Web interface
- » UPnP and Wireless Protected Set up

## BENEFITS

- » No external media converter is needed, providing the best secure solution joined with the Fiber and Lock Management solution
- » 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.
- » 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
- » Maximum flexibility for quick integration with operators' network infrastructure
- » Using multiple antennas to transmit and receive, IP TV can be streamed through Wi-Fi inside the house, beating the barrier of ethernet cables. Moreover the internal antennas make the device more appealing.
- » Provides excellent Quality of Services in a bundled voice, data, gaming and video services environment.
- » Make mass deployment easy and quick.
- » Connecting Consumer Electronic and Wi-Fi devices is easy and quick, allowing multisharing contents inside the house.



# CPL642W & CPL642

## TECHNICAL HIGHLIGHTS

### BROADBAND INTERFACE

Integrated Media Converter	<ul style="list-style-type: none"> <li>&gt; 100BaseBX10, TX 1310nm/RX 1550nm, SC connector</li> <li>&gt; 100BaseSX, SC connector</li> <li>&gt; 100BaseFX, MTRJ connector</li> </ul>	<ul style="list-style-type: none"> <li>&gt; 100BaseLX, LC connector</li> <li>&gt; 10BaseFL, VF-45 connector</li> <li>&gt; 100BaseSX/10BaseFL, VF-45 connector</li> </ul>
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### VOICE

	<ul style="list-style-type: none"> <li>&gt; 2 FXS RJ-11 ports</li> <li>&gt; Up to 2 simultaneous VoIP calls</li> </ul>	
FXS Interfaces	<ul style="list-style-type: none"> <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; REN : 5 per FXS port</li> </ul>	<ul style="list-style-type: none"> <li>&gt; On-Hook voltage: 48 V nominal</li> <li>&gt; Off-hook current: 22 mA (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	<ul style="list-style-type: none"> <li>&gt; H.323 v.4, SIP RFC3261, MGCP</li> </ul>	
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	<ul style="list-style-type: none"> <li>&gt; G.711, G.729A</li> </ul>	
Fax over IP Protocols	<ul style="list-style-type: none"> <li>&gt; T.38</li> </ul>	
Class 5 service	<ul style="list-style-type: none"> <li>&gt; Generic Signaling</li> <li>&gt; Call Hold</li> <li>&gt; Message Waiting</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Call Transfer</li> <li>&gt; Call Waiting</li> <li>&gt; Call Transfer</li> </ul>
Caller I.D.	<ul style="list-style-type: none"> <li>&gt; Through FSK and and DTMF</li> </ul>	

### DATA

Domestic LAN Interfaces	<ul style="list-style-type: none"> <li>&gt; 4 Ethernet 10/100 BaseT half/full duplex autonegotiating, RJ-45 connectors</li> <li>&gt; 1 USB 1.1 slave port type B receptacle</li> <li>&gt; 1 USB 2.0 master port type A receptacle</li> </ul>	
Layer 3	<ul style="list-style-type: none"> <li>&gt; NAT/PAT (RFC 1631)</li> <li>&gt; Static Routing</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Parental Control</li> <li>&gt; RIPv2</li> </ul>
Firewalling	<ul style="list-style-type: none"> <li>&gt; Access Control List</li> <li>&gt; Packet filtering</li> <li>&gt; Application content filtering</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Stateful inspection</li> <li>&gt; DMZ support</li> <li>&gt; Defence against Denial of Service attacks</li> </ul>
IP VPN	<ul style="list-style-type: none"> <li>&gt; Encryption algorithm: DES, 3DES</li> <li>&gt; Authentication algorithm : MD5 , SHA-1</li> <li>&gt; Encapsulation Security Payload (ESP)</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Authentication Header (AH)</li> <li>&gt; Key Management : IKE, Manual, Pre-shared Keys</li> </ul>
QoS	<ul style="list-style-type: none"> <li>&gt; ATM and IP QoS supported.</li> </ul>	
Other	<ul style="list-style-type: none"> <li>&gt; DHCP server</li> <li>&gt; TFTP client</li> <li>&gt; Syslog client</li> </ul>	<ul style="list-style-type: none"> <li>&gt; IGMP V2</li> <li>&gt; UPnP</li> </ul>

### WIRELESS

WLAN Access point (available with CPL642W version)	<ul style="list-style-type: none"> <li>&gt; 3 integrated antennas, 1 for TX, 2 for RX allowing IP TV streaming inside the house</li> <li>&gt; IEEE 802.11b, IEEE 802.11g</li> <li>&gt; QoS 802.11e               <ul style="list-style-type: none"> <li>WME, WMM</li> <li>Support of RTS/CTS</li> <li>VoIP over WLAN</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>&gt; EDCF and HCF supported</li> <li>&gt; Security 802.11i               <ul style="list-style-type: none"> <li>WEP64 / WEP128</li> <li>WPA / WPA2</li> <li>MAC filtering</li> <li>WPS supported with registration button</li> </ul> </li> </ul>
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### MANAGEMENT

	<ul style="list-style-type: none"> <li>&gt; TR-069</li> <li>&gt; Remote Telnet console</li> <li>&gt; SNMP</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Integrated Web Server</li> <li>&gt; Upgradeable via TFTP</li> <li>&gt; Reset Button</li> </ul>
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### POWER SUPPLY

	<ul style="list-style-type: none"> <li>&gt; 12 VDC, with external power adapter 230 Vac, 50 H</li> <li>&gt; Switch on-off button</li> </ul>
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### PHYSICAL DIMENSIONS

	<ul style="list-style-type: none"> <li>&gt; Width 190mm Depth 140mm Height 34mm Weight 500gr.</li> <li>&gt; Wall mountable</li> </ul>
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### ENVIRONMENTAL CONDITIONS

	<ul style="list-style-type: none"> <li>&gt; Operation temperature 5 - 45° C</li> <li>&gt; Storage temperature -5 - 55° C</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Humidity 85% (non condensing)</li> </ul>
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#### 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.