

# CPL4 AND CPL4W

Telsey CPL4 and CPL4W are Integrated Access Devices that enable broadband operators to deploy innovative Triple Play services through the Fiber to the Home (FTTH) approach.

Installed at the premises of residential or small office end users, CPL4 and CPL4W enable the deployment of innovative services like IP High Definition TV, fast internet access, gaming application and VoIP.

## KEY FEATURES

- >> Integrated optical transceiver for multimode and single mode optical transmission
- >> Four Ethernet ports
- >> Integrated IEEE 802.11b/g access point (for CPL4W)
- >> QoS management
- >> VoIP over WLAN
- >> Remote management through TR-069 integrated web page, Telnet, TFTP, DHCP,SNMP, UPnP

## BENEFITS

- >> Provides the best secure solution with the Fiber and Lock Management solution. No external media converters are needed.
- >> The superior layer 2 switching and layer 3 routing features allow service providers to efficiently deliver, through fiber optic, innovative multimedia services such as IP TV, VoIP, fast Internet surfing, gaming on demand and e-learning within the domestic environment.
- >> Wireless home LAN avoids new cabling and gives customers full mobility inside the house. The device is Ready for MIMO-G Beamflex™ (supported by CPL-BF)
- >> Provides excellent Quality of Service into a bundled voice, data and video service environment.
- >> Enables Fixed to Mobile convergence services
- >> Makes mass market deployment easy and quick.



# CPL4 AND CPL4W

## TECHNICAL HIGHLIGHTS

### BROADBAND INTERFACE

- > Fiber Optic:
  - 100BaseBX10, TX 1310nm/RX 1550nm, SC connector
  - 100BaseSX10, SC connector
  - 100BaseFX, MTRJ connector
  - 100BaseLX, LC connector
  - 100BaseSX/10BASEFL, VF-45 connector

### DATA

Domestic LAN Interfaces	> 4 Ethernet ports switch 10/100 BaseT half/full duplex autonegotiating. RJ-45 connectors	
Layer 3	<ul style="list-style-type: none"> <li>&gt; NAT/PAT (RFC 1631)</li> <li>&gt; RIPv2</li> <li>&gt; Static routing</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Firewall</li> <li>&gt; IP VPN</li> </ul>
QoS	<ul style="list-style-type: none"> <li>&gt; IP QoS management support</li> <li>&gt; VLAN 802.1p, 802.1</li> </ul>	
Other	<ul style="list-style-type: none"> <li>&gt; DHCP client/server</li> <li>&gt; TFTP client</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Supports IGMP snooping (RFC 1112)</li> <li>&gt; UpnP</li> </ul>
WLAN Access Point (for CPL4W)	<ul style="list-style-type: none"> <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 protection mechanism</li> <li>- EDCA and HCF supported</li> </ul> </li> <li>&gt; Security 802.11i (WEP - WPA - MAC filtering)</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Multiple SSID</li> <li>&gt; VoIP over WLAN supported</li> <li>&gt; Ready for MIMO-G Beamflex™ (supported by MAGIC V+ BF)</li> <li>&gt; Registration button</li> </ul>

### VOICE

Simultaneous Voice Calls	> 2	
Analog Interfaces	<ul style="list-style-type: none"> <li>&gt; 2 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> </ul>	<ul style="list-style-type: none"> <li>&gt; REN : 5 per FXS port</li> <li>&gt; On-Hook voltage: 48 V nominal</li> <li>&gt; Off-hook current: 22 mA nominal (other values programmable)</li> <li>Terminating impedance: 600 Ohm default (other impedances programmable)</li> <li>&gt; Loop Signaling: Loop Start</li> </ul>
VoIP Protocols	> H.323 v.4, SIP RFC3261, 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>	
VoIP Codecs	> G.711, G.723a	
Fax over IP Protocols	> T.38	
Other	> Dial Plan customizable	

### 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> </ul>	<ul style="list-style-type: none"> <li>&gt; Call Transfer</li> <li>&gt; Call Waiting</li> <li>&gt; 3 way conference</li> </ul>
Caller ID	> V.23 Modem and DTMF transmitter on board	

### 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 190 mm; Depth 140 mm; Height 38 mm
- > Wall mountable

### ENVIRONMENTAL CONDITIONS

- > Operation temperature: 5 - 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.