

FTTH-Access Unit (CPE) for Triple Play

- CPE unit for FTTH applications
- Triple Play for data, voice and video
- Bridging converter and switch version
- Optional ports for analogue telephones and cable TV (CATV)
- Several fiber versions with distances up to 100 km
- Cost effective
- Smart design



The new range of Fiber To The Home (FTTH) CPE units has been designed to meet all requirements of modern fiber based access networks. There are three different variants available. One version comes with an integrated bridging converter, a second version with a 4 port switch and integrated gateway for the connection of an analogue telephone with SIP integration. The third version is delivered with an integrated CATV receiver.

With the integrated QoS features according to IEEE802.3p/Q it is ensured that time critical applications are handled with the required quality. The implemented "Q-in-Q VLAN Tunnelling" is a new standard feature in FTTH networks to avoid network transmit bottle necks and to provide VOIP, IPTV and triple

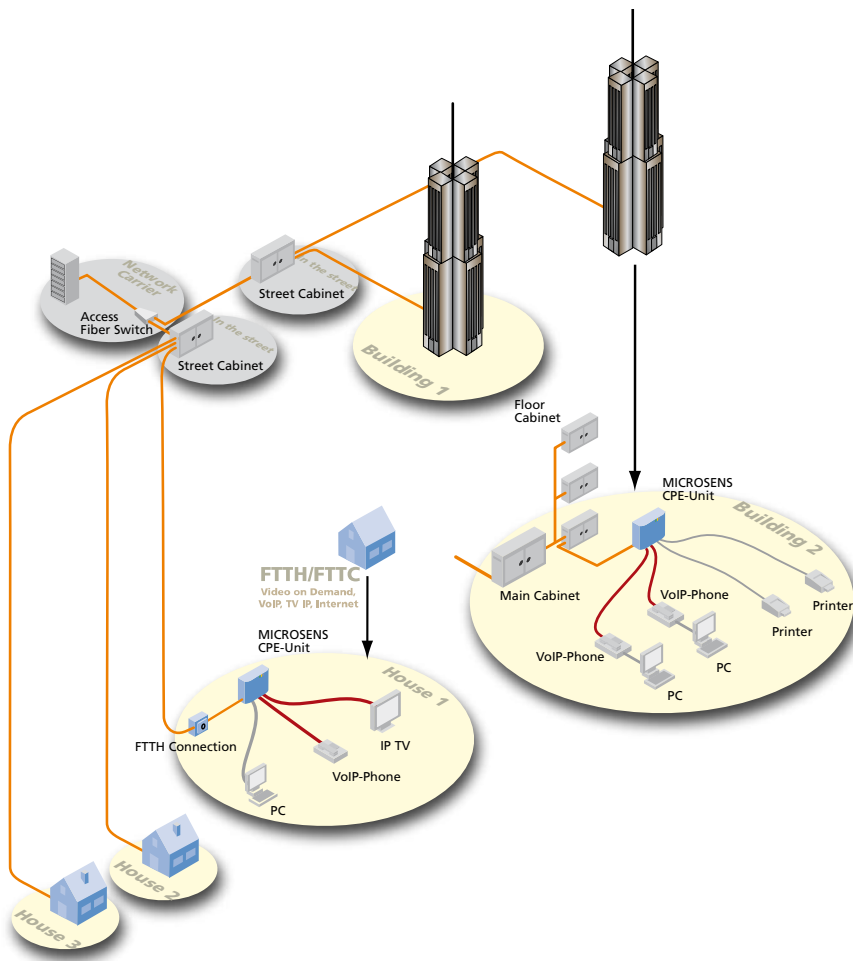
play within a high broadband service environment. The switch version has four integrated 10/100Base-TX port to connect multiple end devices. Typical applications can be Internet, VoIP, Video on Demand and others. Additional there are two analogue telephone ports integrated. With SIP or H323 protocol both standard protocols for internet telephony are supported. The integrated firewall secures the connection to the World Wide Web.

The third version is delivered with an integrated receiver for CATV. The CATV signal is transmitted together with the IP Data over the same fiber pair by using a second optical wavelength (Wavelength Division Multiplexing – WDM). The CPE unit extracts the CATV signal and allows the connection of an external CATV tuner.

The management of the devices is possible via SNMP and web based. It offers the administrator a user friendly but effective tool for remote monitoring and configuration. All devices are available with a wide range of optical interfaces, multimode, single mode and simplex fiber for distances up to 100 km.

For the central distribution centres MICROSENS offers high port density multiport media converter. With these converters it is possible to provide the central fiber optic ports in a very cost effective way and with an extreme high port density. In combination with the Metro xWDM solutions, MICROSENS is able to supply the complete fiber optic equipment for modern FTTH networks, starting from the end user side up to the backbone transmission systems.

FTTH-Access Unit (CPE) for Triple Play



Typical application of FTTH/FTTO subscriber terminals

Technical Specifications

Type

4x 10/100Base-TX, 1x 100Base-FX
Uplink with 2 Ports VoIP Residential Gateway

Standard

IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX/FX
IEEE 802.1p Priority
IEEE 802.1q Tag VLAN
SIP
G.711/723/729(optional)

Interface & Port number

4x 10/100Base-TX
1x 100Base-FX
2x Tel. Local
2x Tel. Line

LED

Power, WAN, Status, Speed, Link

Product Specifications

MAC address table: 2K
Memory buffer: 48K
VLANs: Support up to 4 VLAN Groups
Priority Queues: 4 Queues

Forward / Filter Rate

10M: 14,880/14,880pps
100M: 148,800/148,800pps

Management Software Feature

SNMP/Telnet/Web
SNMP Agent Support:
MIB II Interface/RMON
MIB (RFC 1757)/Private MIB
Time Server Configuration
FTP/TFTP Firmware Upgrade
Configuration Backup

Power

External Power adapter:
Input AC 120 V – 240 V
Output DC 12 V
Power Consumption: 7 W

Typical Operation

& Storage Temperature

Operation: 0°C – 40°C
Storage Temperature: -20°C – 60°C

Humidity

5% – 90% non-condensing

Dimension and Weight

Size: 210 x 147 x 55 mm (W x D x H)
Shipping Weight: 1.5 Kg

Emission/Safety

FCC Class A, CE

Ordering Information

Art.-No.	Description
MS540162	FTTH-Access Unit (CPE) with Bridging Converter, 1x 10/100Base-TX, 1x 100Base-FX, Single Mode duplex SC 30 km
MS540162A	Version with SM simplex SC 20 km, TX: 1310 nm
MS540162B	Version with SM simplex SC 20 km, TX: 1550 nm
MS540242	FTTH-Access Unit (CPE) with 4 port switch and VoIP function, 4x 10/100Base-TX, 1x 100Base-FX, 2x Tel. Single Mode duplex SC 30 km
MS540242A	Version with SM simplex SC 20 km, TX: 1310 nm
MS540242B	Version with SM simplex SC 20 km, TX: 1550 nm
MS540282A	FTTH-Access Unit (CPE) with 4 port switch and VoIP & CATV function, 4x 10/100Base-TX, 1x 100Base-FX, 2x Tel., 1x Coaxial Single Mode 2x simplex SC 20 km, TX: 1310 nm
MS540282B	Version with SM 2x simplex SC 20 km, TX: 1550 nm

Further products on request.

MICROSENS reserves the right to make any changes without further notice to any product to improve reliability, function or design. MICROSENS does not assume any liability arising out of the application or use of any product. 4707dh/fr/jr

MICROSENS GmbH & Co. KG
Kueferstr. 16
D-59067 Hamm
Germany

Telefon: +49 2381/9452-0
Fax: +49 2381/9452-100
E-Mail: info@microsens.com
Web: www.microsens.com