

AXS-CPE150-15

5GHz BAND CPE

Cost-effective and easy to install
Ultra-compact and energy-efficient
QoS guarantee
35Mbps net throughput
Home-Gateway functionality







The AXS-CPE150-15 user terminal has been designed by Albentia Systems to cover deployment needs in wireless access networks in the 5GHz band.

It is a cost-effective easy to install CPE for residential use, which allows the ISP to offer equivalent services to those provided by cable networks. Designed with aerDOCSIS technology, it is completely interoperable with other 802.16 implementations.

Featuring Home-Gateway functionality, AXS-CPE150-15 offers an easy to configure web interface for end users and allows for cost savings as it eliminates the need for a home router.







APPLICATIONS

- Internet service
- Rural broadband access
- VoIP and videoconferencing
- Leased lines for corporate access
- Extension of fiber optic networks
- IPTV
- Smart-metering

RADIO PARAMETERS

4900-5875MHz
1MHz
35Mbps
10 / 7 / 5 / 3.5 / 1.75 MHz
3,5bps/Hz
-92dBm @ 10MHz -99dBm @ 1.75MHz
-75dBm @ 10MHz -82dBm @ 1.75MHz
23dBm
15 dBi
OFDM 256 subcarriers
Adaptive BPSK, QPSK, 16QAM y 64QAM (7 levels depending on FEC combination)
Yes, concatenated Reed-Solomon and convolutional code
Yes
From 100/0 to 0/100
Synchronous TDMA with hardware implementation
TDD (Time Domain Duplexing)

QUALITY OF SERVICE (QoS)

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QoS control	5 QoS levels (BE, nRTPS, eRTPS, RTPS, UGS). Separate queues per service and user
Service differentiation	Layer 2: MAC source/destination address, Ether Type, VLAN tag Layer 3: DSCP ToS, IP source/destination address, subnet, protocol Layer 4: TCP or UDP source/destination port
Max. number of services	Unlimited

All Albentia Systems products are designed and manufactured in the $\ensuremath{\mathsf{EU}}$

NETWORKING AND SECURITY

Layer 2 functionality	Bridging (IEEE 802.1)
VLAN	802.1q, 802.1p, q-in-q support, unlimited VLANs
Layer 3 functionality	Dynamic/static routing, NAT, DHCP server/client
Encryption	AES128/256
Latency	5ms
X.509 certificates	Yes
Data interface	Ethernet 10/100 Base T
Max. packet size	2048 bytes

MANAGEMENT

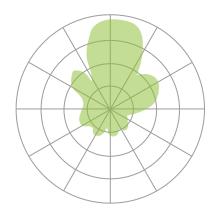
Local	ACC-HU port
Remote	Web, SSH, XML-RPL, SNMP v1, 2 & 3
Advanced	SMC channel support, double IP data/management

PHYSICAL FEATURES

Dimensions	275 x 137 x 650 mm (packaged)
Weight	0,68 kg
PoE supply (not included)	110-240 ACV 50/60Hz input 24DCV output (Optional DC input 10-24V)
Power consumption	< 4.5 W
Temperature range	From -30°C to +55°C (working environment temperature)

STANDARDS

Protocol	aerDOCSIS compatibility with 802.16-2012
Radio	ETSI EN 302 326-2
Environment	ODU: IP55 (protection), ETSI EN 60950-1: 2006 (security) IDU: IEC 61000-4-2 (ESD), IEC 61000- 4-5 (Surge)



PRODUCT DATASHEET AXS-CPE150-15



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