

# BROADACCESS MSAP - BREAKTHROUGH TO AN IP FUTURE

The BroadAccess is a high performance Multi-Service Access Platform (MSAP) designed for the delivery of residential Triple Play services and Carrier Ethernet business services. The BroadAccess 1000E and 300E offer unsurpassed flexibility with support for a complete set of voice and IP broadband services over copper and fiber.



## BENEFITS

- A wide range of copper and fiber broadband technologies enables carriers to smoothly and cost-effectively migrate from ADSL to VDSL2 to an FTTx network architecture
- Ultra high capacity Ethernet architecture is optimized for advanced residential triple-play applications and business data applications
- Common set of line cards and accessories for both form-factors simplifies sparing and reduces operational costs

## FEATURES

- Simultaneous support for VoIP based POTS, ADSL2+, VDSL2 and Ethernet FTTx
- Highly resilient IP/Ethernet architecture optimized for Triple Play & IPTV and business services
- Robust H.248 and SIP VoIP protocols certified against industry leading softswitch vendors
- Compact industrial temperature rated design suitable for cabinet deployments in the harshest environments as well in the central office

## APPLICATIONS

- Triple Play - Supports a rich portfolio of voice, data and multi-media services
- Provides an optimal solution for Class 5 replacement and network migration to a softswitch architecture
- Provides flexible solutions for network transition from lower speed ADSL to VDSL2 and carrier grade Ethernet services over existing copper OSP infrastructure.

[DATA SHEET](#)

## KEY FEATURES

### ADVANCED ARCHITECTURE OPTIMIZED FOR TRIPLE PLAY & IPTV

With a 720Gbps architecture and advanced IP capabilities, the BroadAccess-1000E offers an optimal solution for broadband services such as IPTV and business services. The product provides high capacity broadband service interfaces such as Ethernet, ADSL2+, and VDSL2 and aggregates them over multiple Ethernet uplinks.

### ROBUST VOIP IMPLEMENTATION

The system's field proven H.248 and SIP protocol implementation enables a smooth migration to a next generation soft switch environment with certifications with industry leading switch vendors

### ENVIRONMENTALLY HARDENED CABINETS

The BroadAccess family offers a diverse selection of compact, cost-effective outdoor cabinets. The housing solutions are highly modular, and customized solutions can be tailored to specific customer requirements. The cabinets are environmentally hardened, enabling deployment in any climatic and geographical conditions. Various deployment possibilities (mounting on a ground-level pad, wall, pole or dual poles) are available.

### POWERFUL MANAGEMENT

BroadAccess-1000E is managed by ClearAccess+, a smart, comprehensive Element Management System (EMS) that offers efficient, cost-effective control of thousands of BroadAccess-300E systems. The system's advanced functionalities and effortless operation significantly reduce operational costs and improve service quality, thus assuring smooth network performance and maximizing the network's potential.

### HIGH CAPACITY AND DENSITY

A capacity of up to 864 xDSL or voice interfaces per shelf enables efficient delivery of high-end broadband services.

### MODULARITY AND FLEXIBILITY

The system's flexibility is available through different shelf sizes to suit various capacities from 24 to 864 service ports. It supports any mix of services – POTS, ADSL2+, VDSL2 and Optical Ethernet.

### INTEGRATED ETHERNET RING TRANSPORT

The system incorporates an integrated resilient Ethernet ring transmission, providing an ideal solution for the delivery of high capacity triple play and carrier Ethernet services. In addition to its high speed the Ethernet transport ensures an enhanced resiliency with a sub 50 millisecond protection switchover time.

### ADVANCED SUBSCRIBER SECURITY

The BroadAccess supports a full suite of subscriber security features including MAC address locking, MAC Forced Forwarding, DHCP relay and snooping to ensure maximum protection.

### CARRIER-CLASS

BroadAccess offers a high level of immunity to failure and comprehensive redundancy, ensuring continuous and reliable service.

## SPECIFICATIONS

### Physical

- Dimensions
  - BA1000E- 14.75"H x 17"W x 10"D
  - BA300E- 10.5"H x 12.8"W x 10.5"D
- Dual Redundant Load Sharing Inputs
  - 41-72 Vdc
- Temperature
  - -40°C to +55°C Operating
  - -40°C to +85°C Storage

### Subscriber Interface Modules

- POTS only
- ADSL2+ (optional splitter)
- ADSL2+ with POTS combo
- VDSL2 (optional splitter)
- SHDSL
- Fast Ethernet

### Network Interface Modules

- 1Gb/s Ethernet SFP slots
- 10/100/1000Base-T RJ-45

### Architecture and Capacity

- Ethernet Packet Based
- Maximum subscriber ports
  - BA300E- 288
  - BA-1000E- 864
- Subscriber slots
  - BA300E- 6
  - BA1000E-18
- Network Interface slots- 2

### Management

- Clear Access
- RS-232
- SNMP
- XML

### IP/Ethernet

- Ethernet switching 802.1D
- VLAN tagging 802.1Q
- VLAN stacking 802.1ad
- VLAN priority 802.1p
- IGMP snooping / proxy
- Protocols
  - PPPoE
  - IPoE
  - PPPoA to PPPoE IWF
  - IPoA

### VoIP

- VoIP call control – H.248(MEGACO) , SIP
- Codecs – G.711, G.723, G.729
- Media processing – Echo Cancellation, Silence suppression, RFC 2833 compliant, Fax/modern support

For more information  
visit [www.enablence.com](http://www.enablence.com)