

# EAD – ETHERNET ACCESS DEVICE

blue wing

## PERFORMANCE

with up to 200 Mbps internal routing performance one of the fastest Residential Fast Ethernet Access Devices

**SIZE** 16 cm × 24 cm – the smallest EAD

**VARIETY** Router, WLAN, POTS, DECT, ISDN



### PRODUCT FAMILY BLUE WING EAD – THE DRIVE-UP TO THE DATA HIGHWAY

IP-TV and 3D-TV in HD quality for all of the family, online games, Cloud Computing and applications like Smart Grid and Smart Metering require ultimate bandwidths. The steadily growing bandwidth demand, driven by permanently upcoming new services, calls for an adequate drive-up onto the Internet highway.

These bandwidths can be met by offering the end customer different provisioning solutions. However, this requires a large number of diversified Customer Premises Equipments (CPE), a fact that is necessarily related with additional support demand.

With the EAD numerous functionalities and services can be supplied over a standard Ethernet interface in only one device. The choice of Active Ethernet as transmission standard allows the use of common network routing elements.

As a result, subscribers will benefit from broadband connections providing high-quality Voice-over-IP services and data rates up to 100 Mbps bidirectional. Profiting from the high bandwidth for Internet access, end users may decide for attractive add-on options, such as Video-On-Demand and interactive multimedia services.

Integrated interfaces for analogue telephones and the 4-port Ethernet router make an easy connection of CPE devices to the future data network possible already today. Depending on the version of the EAD, ISDN S0 bus and WLAN are supported to connect the CPEs.

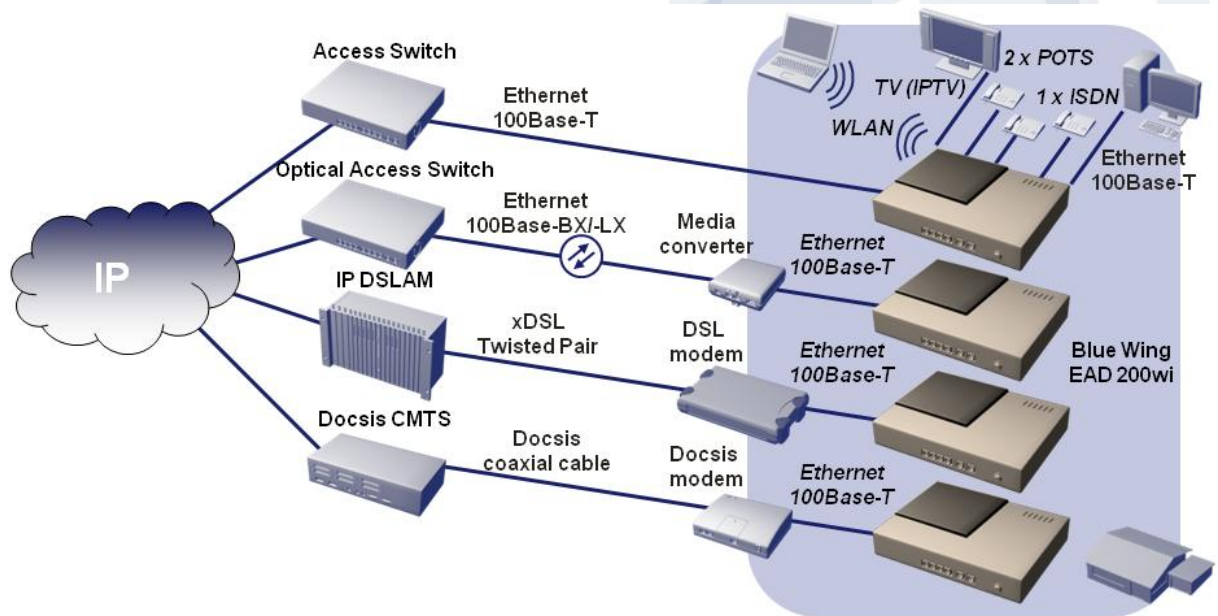
Via the EAD 100w / EAD 200wi WLAN Access Point it is possible to connect the WLAN-equipment with the High-Speed Internet. This allows devices like notebooks or set-top boxes to be operated quickly and flexibly – without additional wiring efforts.



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## APPLICATION



## TECHNICAL DATA

### WAN interface

- Ethernet-WAN (electrical): 100Base-T

### LAN interface

- Ethernet LAN: 4 × 10/100Base-TX RJ45; Auto MDI / MDIX; Transparent Bridging mode
- Router or Bridged Mode, configurable
- DHCP: dynamic IP address assignment
- 2048 MAC-addresses
- Spanning Tree Protocol / Rapid Spanning Tree Protocol (STP / RSTP)

### Telephone services

- Phone sockets: 2 × RJ11
- Signalling: SIP (RFC 3261)
- Speech codecs: G.711 optional (subject to a license): G.726, G.729a/b, G.723.1
- Supplementary services: 3PTY; CLIP; CLIR; HOLD; CW etc.
- Fax: G.711 pass through; optional: T.38

### Quality of Service & Safety

- Quality Of Service: TOS/Diffserv;
- Firewall; Network Address Translation (NAT); Port Forwarding

### Management

- Remote Management via SNMP v1, v2, v3;
- Dynamic configuration: DHCP TFTP
- Firmware update: Remote and local Firmware update
- Optional: Web-GUI; TR069

### Optional interfaces

#### (depending on the hardware version)

#### ISDN S0 interface

- acc. to ETS 300 012 guideline
- Operating range: max. 220 m (short passive bus) max. 1100 m (point-to-point connection)
- Transmission method: Four-wire duplex
- Channel structure: 2B+D, synchronization and monitoring
- Line code: AMI (modified)
- Total bit rate: 192 kbps
- Useful bit rate: 144 kbps
- Wattage: ≤ 2 W optionally on request: ≤ 4.5 W
- Connector type 1 × RJ45
- 100 Ω Bus terminating resistors (switchable)

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## TECHNICAL DATA

### Optional interfaces (depending on the hardware version)

#### WLAN interface

- Operating mode: Access Point
- Standards 802.11g,b
- Frequency range 2.412 GHz ... 2.472 GHz
- Data rates
  - 802.11b: 11 / 5.5 / 2 / 1 Mbps
  - 802.11g: 54 / 48 / 36 / 24 / 12 / 9 / 6 Mbps
- Types of modulation: QAM-64; QAM-16; QPSK; BPSK
- Max. effective radiation power ERP:
  - 802.11g 54 Mbps = 17 dBm;
  - 802.11b 11 Mbps = 19 dBm
- Aerial power gain: +2 dBi
- Receiver sensitivity
  - 802.11g 54 Mbps = -72 dBm;
  - 802.11b 11 Mbps = -83 dBm
- Encryption: WEP, WPA, WPA-2

### Physical parameters

#### Power supply of plug-in power supply module (Euro plug)

- Operating voltage range: 100 V ... 240 V AC
- Frequency range: 50 Hz ... 60 Hz
- Current consumption: ≤ 0.5 A

#### Power supply of EAD

- Nominal voltage: 12 V DC
- Current consumption: < 1.2 A

#### Dimensions (W × D × H)

- 240 mm × 160 mm × 48 mm

#### Environmental conditions (according to ETS 300 019)

- Operation:
  - Air temperature: 0 °C ... +40 °C;
  - Rel. humidity: 5 % ... 95 %
- Storage and transport:
  - Air temperature: -25 °C ... +55 °C;
  - Rel. humidity: 5 % ... 95 %

#### EMC & Safety

- EMC: EN 55022 Class B, ETSI EN 300 386, ETSI EN 300 328, ETSI EN 301 489-1
- Safety: EN 60950-1

**Note:** All rights reserved. Subject to modifications due to technical progress. Errors and printing mistakes may occur.

### PURCHASE ORDER INFORMATION

Product designation	Order number
Blue Wing EAD 100	900168
Blue Wing EAD 100w (with WLAN)	900242
Blue Wing EAD 200wi (with WLAN and ISDN)	900284