ADB Enterprise and In-Home Solutions

The most efficient system solutions that bring broadband services and video experience to Multi-Gigabit Home and Enterprise Environments

Table
of Contents

We are a full solution provider

ADB Enterprise and In-Home Solutions is a complete set of system solutions that enables Operators to ensure seamless connectivity and proper QoS for both video and broadband, in every part of the house or office. This is achieved by intelligent software running in the client devices (CPEs), but also through an efficient backend systems that provide all the functionalities to the CPEs and applications, and help Operators to monitor and control their field deployments.

ADB Enterprise and In-Home Solutions let Operators to understand what is happening in today's home/office network. Without this Operators will be operating blindly and it will be difficult to ensure stability and ideal performance to keep their customers loyal.

ADB Enterprise and In-Home Solutions

|			
Multi-level multi-platform frontend software	Broadband & Video middleware	Video apps for all screens	i-CAN Home Mobile App for network management and control
Operator Backend Systems	graphyne (Home) Service Delivery Platform	vuTyme (Hospitality) Service Delivery Platform	Prisme / Maps Monitoring Systems for SME & Residential Networks *Under Development
Video and Broadband CPEs	Wi-Fi 6, 6E & 7 Broadband Gateways, Routers and Mesh nodes	Linux, Android TV, Hybrid & IP Set Top Boxes	
Integration with 3rd parties	Integration with 3rd party devices	Integration with existing operators network components	
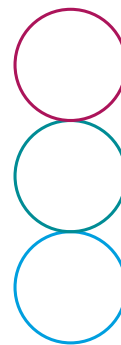
Solutions
for Video
Entertainment

graphyne®
Powering Video Entertainment

graphyne® is a Pay-TV management and content aggregation platform that enables Operators to provide premium video entertainment experience to their subscribers including Live TV, streaming and on-demand content. It is deployable as an end-to-end system, or individual modules enriching existing Video platform

graphyne® brings multi-screen freedom to subscribers and offers the same leading-edge UI across set-top boxes, smartphones, tablets, web browsers, Apple TV, Android TV, and smart TVs – all of which are managed by a single graphyne® back-office system called graphyne® Service Delivery Platform (SDP).

The graphyne® SDP provides all key services to the Operator and end users' devices, and is pre-integrated with the most popular video processing solutions, content discovery engines, CRM solutions and more.

graphyne® SDP offers generic APIs for simpler integration and communication with various operator's and 3rd party systems.

KEY **FEATURES:**

- Pay-TV essentials and much more
- Catchup, Start-over
- Cloud PVR
- Messaging & Advertising
- Content Discovery (Search, Recommendations, Voice)
- Streaming Applications
- Integration with Broadcast Systems (optional)

Solutions for Hospitality, Healthcare, and other Commercial Properties
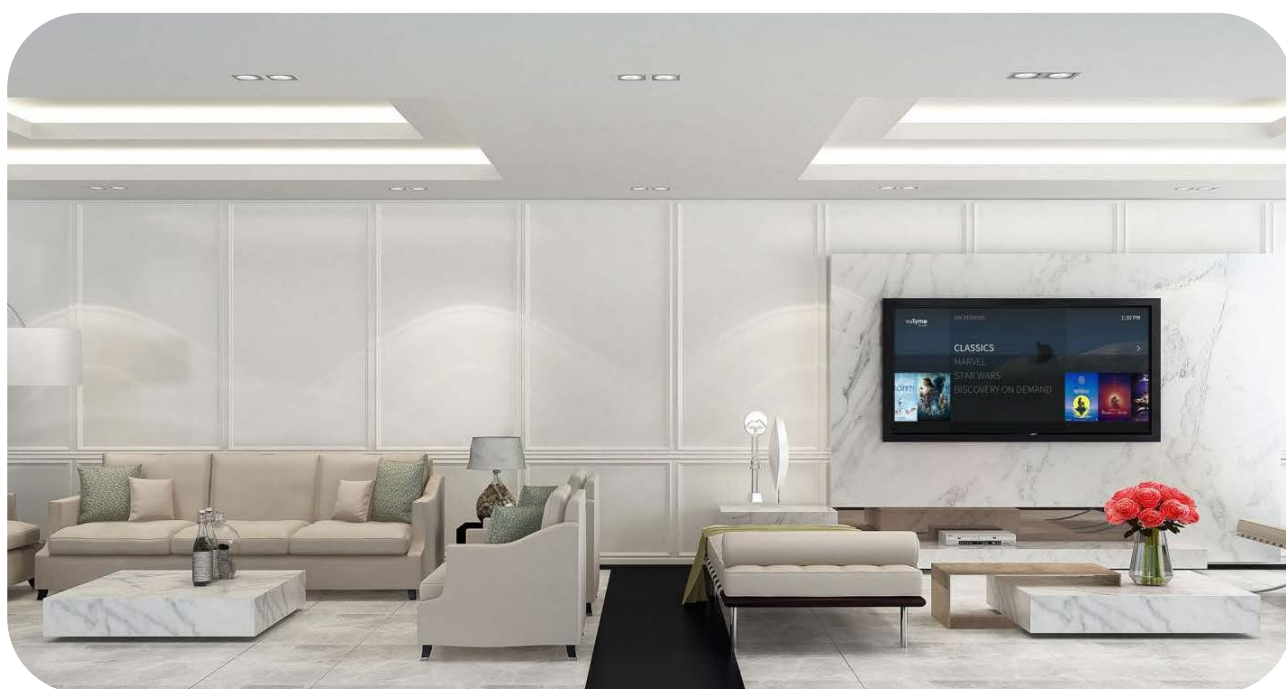
vuTyme®

The vuTyme® interactive TV system delivers customized video and an array of interactive features to guest-centric properties – via an elegant user interface on the TV.

It answers the demands of operators who want to offer a robust interactive TV solution to a wide range of commercial property types of any size. With a proven backend all the way to its edge, the vuTyme® system provides the most scalable and operationally efficient commercial TV solution available. Operators served by vuTyme® include cable, broadband, telco and satellite.

The goal of vuTyme® is to neither overwhelm nor underwhelm a property with features, but to provide a "just-right" solution for each property.

Features that entertain, inform, and enrich the in-stay experience, as well as generate revenue, can be easily scaled to fit the modern demands of individual properties and chains.

KEY **FEATURES:**

- Any combination of video: Cable, Sat, IP, Terr, 3rd party VOD/PPV
- Property compendiums, local attractions, news, weather, guest messaging and alerting
- DVR-Lite™, vucaster™ mobile screen, Wi-Fi Fast-Connect
- Elegant searchable guide, enhanced multi-language features
- Granular control of the UI appearance and channel lineups
- Folio view and checkout, paywalls for VOD, casting, and channels

vuTyme operates in nearly 300,000 guestrooms and serves more than 7150 properties across the USA, Europe, and Australia

Solutions for Broadband

A Full-featured, Scalable SW Suite
for Residential Gateways, Integrated Access Devices
and Small Business Routers

epiCentro

epiCentro is a multi-service, embedded middleware with advanced Wi-Fi, voice and data capabilities. It allows Operators easily launch new value-added services and ensures secure connectivity for all connected client devices.


KEY FEATURES:

- State of the Art Embedded Software Platform
  - Support for all access technologies, from traditional xDSL to the latest XGS-PON
  - Dual IPv4 + IPv6 stack
  - Advanced Wi-Fi capabilities: mesh, enhanced band steering and automatic channel selection
  - Advanced QoS and QoE with extensive diagnostic capabilities
  - SDN/NFV readiness
  - SIP/IMS compliance, enabling next generation voice services
  - TR-181 native support, enabling advanced management via TR-069

- Unified SW platform across all ADB broadband devices - lower cost of evolution, support and bug fixing thanks to:
  - multiple service profiles support
  - full reusability on product evolutions, with reasonable adaptations over different chipsets
- Seamless network integration thanks to deep knowledge of network infrastructure and alignment with foremost industry guidelines
- Multi-service operating system
  - accelerating deployment of new applications and services thanks to modular architecture
  - providing multi-service execution environment
- Consolidated security framework
  - strong IP security including robust firewall filtering and DoS protection
  - secure wired and wireless network connection for client devices
  - dangerous traffic filtering

Deployed since 2012 on 30+ million devices under active support

More than 20 different CPE's by either ADB or third party

Used on 3rd party HW in 12 different projects, with ADB as prime contractor

i–CAN Home Mobile App
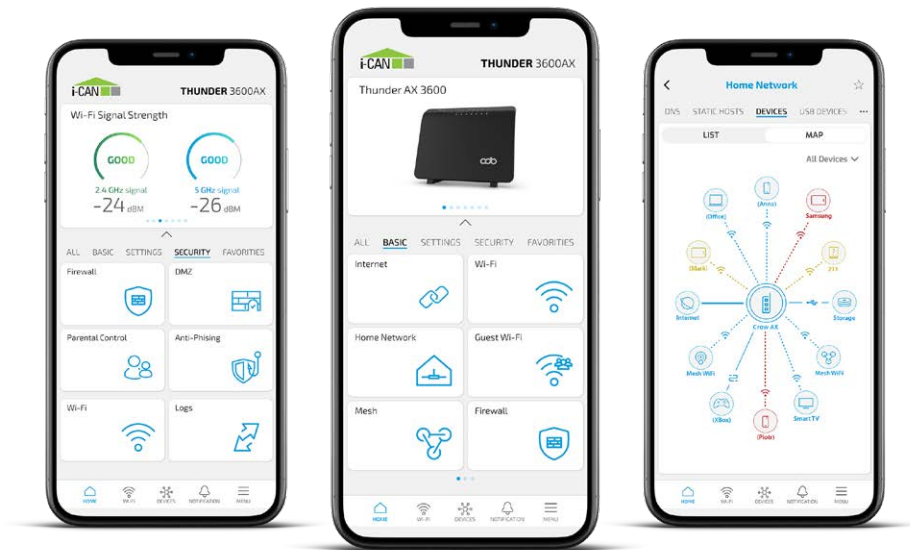
i-CAN Home is a mobile application running on iOS or Android devices that enables subscribers to self-install, configure, and manage broadband devices and services

Furthermore, the application notifies subscribers of any anomaly or unusual behavior of the home network or connected device and will guide them to the right solution.

This application accesses the data gathered by all broadband devices and analyzed by the Gateway/Router in an easy-to-use format that is understandable by non-technicians.

The operator can also access this data and perform analytics to anticipate subscriber issues, reduce support calls, and potentially upsell solutions (additional mesh nodes for example).

CUSTOMIZATION

- Operator's Brand and colors
- Multilanguage support
- Publication by Operator in the app store

KEY FEATURES:

- Gateway and Mesh Installation
- Configuration of Wi-Fi and device settings
- Home Network Management
- Parental Control
- Security features
- Selfcare / Troubleshooting

Broadband CPEs

Multi-Gigabit XGS-PON Gateway with Wi-Fi 7
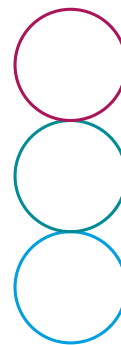
Cheetah

WI-FI 7

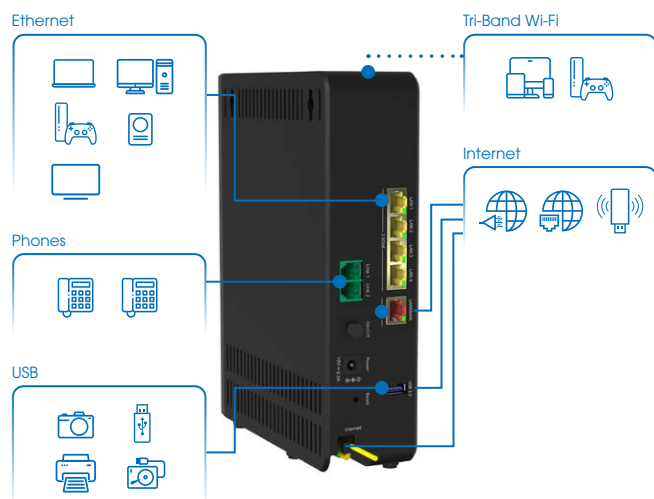XGS-PON | 10 GbE | Tri-Band Wi-Fi 7

Phone | USB | Mesh

WI-FI 7 - EXTREMELY HIGH THROUGHPUT AND ULTRA-LOW LATENCY

Cheetah fully exploits the efficiency of the XGS-PON network infrastructure and delivers symmetric 10 Gigabit WAN to homes and business properties.

Bringing together all key benefits of Wi-Fi 7, such as 320Mhz ultra-wide channel, 4k-QAM modulation, Preamble Puncturing, and Multi-Link Operation, Cheetah enables Wi-Fi with extremely high throughput (up to 19 Gbps), ultra-low latency, and increased capacity through the most efficient use of spectrum.

Positioned as the central node of a Wi-Fi Mesh system, it ensures unprecedented performance of the Wi-Fi 7 network covering every corner of the property.
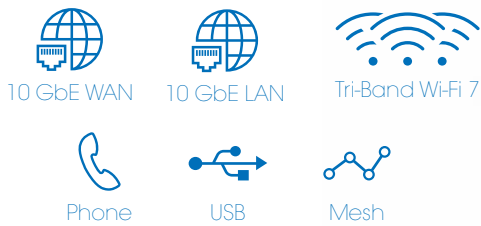
Ethernet

Tri-Band Wi-Fi

Internet

Phones

USB

CHEETAH **OVERVIEW**

- On-board XGS-PON interface with 10 Gbps symmetric speed
- Extremely High Throughput Wi-Fi 7:
  - Tri-band WLAN router support for 2.4, 5 GHz and 6 GHz bands with cumulated speed up to 19 Gbps (BE19000)
  - Multi-Link Operation
  - 4k-QAM, 320 MHz bandwidth support on 6 GHz
  - Channel puncturing on 5 GHz and 6 GHz
- End-user multiple connections via wireless LAN, 4x 2.5 GbE or 10 GbE port
- Stable and reliable video streaming over Wi-Fi, with Easy Mesh support
- 2x FXS ports for analog telephones, POS and fax
- SIP phones local management
- 1x USB 3.0 port for network printers and storage
- Simple configuration over a browser interface
- Secure remote access over the Internet with native VPN (IPSec)
- SW Packages options:
  - Advanced QoS (Wi-Fi QoS Experience)
  - Enterprise (SDN, NFV, LxC docker, Advanced Routing protocols, i.e.RIP, BGP, OSPF)
  - Mobile Failover (with Dual-WAN Routing support)
  - Cyber-security (3rd party application integrated)
- QoE agent: SW application monitoring gateway performances (Wi-Fi, WAN, VOIP and more)
- SmartApp application for device and home network management
- Anti-phishing solution for enhanced network security

Jaguar

WI-FI 7

10 GbE WAN   10 GbE LAN   Tri-Band Wi-Fi 7

Phone   USB   Mesh

WI-FI 7 - EXTREMELY HIGH THROUGHPUT AND ULTRA-LOW LATENCY

Jaguar is a very powerful gateway, designed to fully exploit the efficiency of multi-gigabit networks. It enables 10 Gigabit WAN uplink connectivity and is suitable for high-demanding residential consumers, as well as for small and medium businesses.

Bringing together all key benefits of Wi-Fi 7, such as 320Mhz ultra-wide channel, 4k-QAM modulation, Preamble Puncturing, and Multi-Link Operation, Cheetah enables Wi-Fi with extremely high throughput (up to 19 Gbps), ultra-low latency, and increased capacity through the most efficient use of spectrum.

Positioned as the central node of a Wi-Fi Mesh system, it ensures unprecedented performance of the Wi-Fi 7 network covering every corner of the property.

Ethernet

Tri-Band Wi-Fi

Internet

Phones

USB
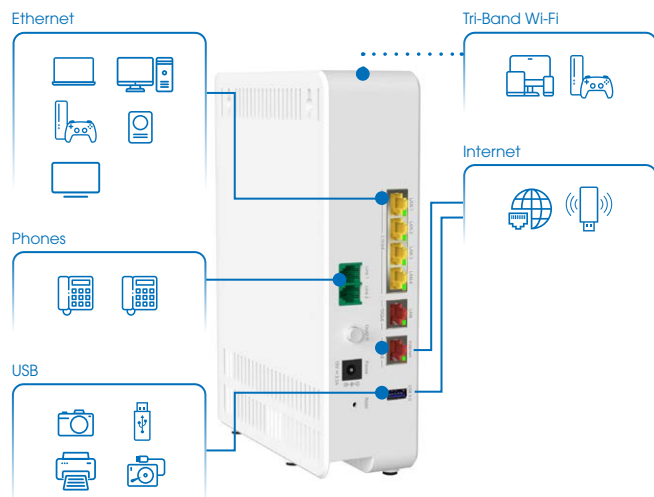
JAGUAR OVERVIEW

- Internet connection with integrated 10 GbE WAN interface
- Extremely High Throughput Wi-Fi 7:
  - Tri-band WLAN router support for 2.4, 5 GHz and 6 GHz bands with cumulated speed up to 19 Gbps (BE19000)
  - Multi-Link Operation
  - 4k-QAM, 320 MHz bandwidth support on 6 GHz
  - Channel puncturing on 5 GHz and 6 GHz
- End-user multiple connections via wireless LAN, 4x 2.5 GbE or 10 GbE port
- Stable and reliable video streaming over Wi-Fi, with Easy Mesh support
- 2x FXS ports for analog telephones, POS and fax
- SIP phones local management
- 1x USB 3.0 port for network printers and storage
- Simple configuration over a browser interface
- Secure remote access over the Internet with native VPN (IPSec)
- SW Packages options:
  - Advanced QoS (Wi-Fi QoS Experience)
  - Enterprise (SDN, NFV, LxC docker, Advanced Routing protocols, i.e.RIP, BGP, OSPF)
  - Mobile Failover (with Dual-WAN Routing support)
  - Cyber-security (3rd party application integrated)
- QoE agent: SW application monitoring gateway performances (Wi-Fi, WAN, VOIP and more)
- SmartApp application for device and home network management
- Anti-phishing solution for enhanced network security

Impala

WI-FI 7
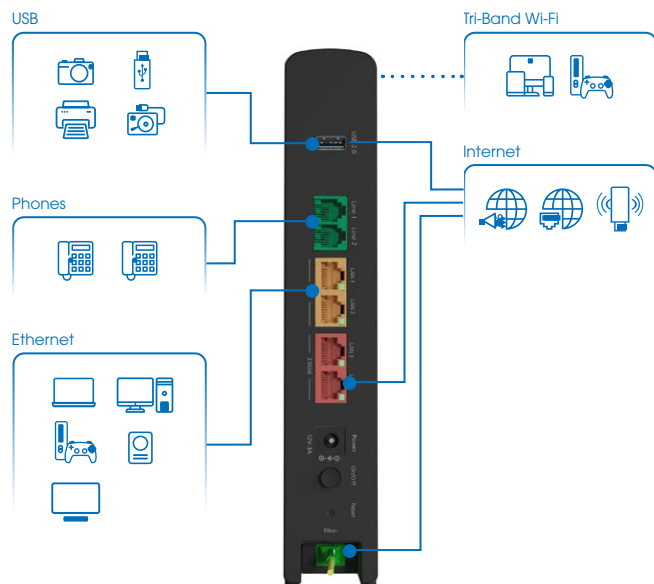
GPON 2.5 GbE Tri-Band Wi-Fi 7

Phone USB Mesh

WI-FI 7 - UNLEASHING NEXT-GENERATION CONNECTIVITY

Impala enables Internet access through an ultra-fast GPON WAN interface.

It supports tri-band Wi-Fi 7 technology and incorporates all the innovations of the latest standard. These include a 320MHz ultrawide channel, 4k-QAM modulation, Preamble Puncturing, and Multi-Link Operation.
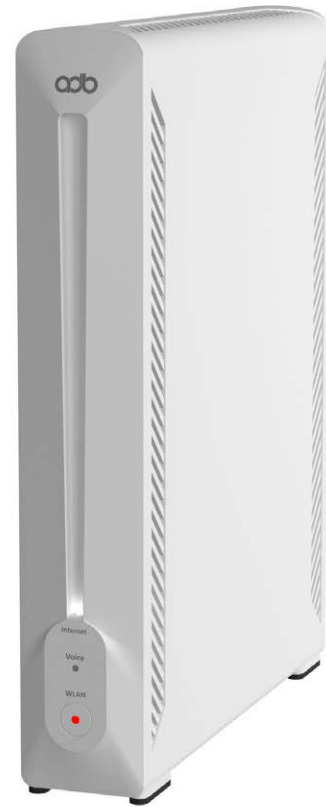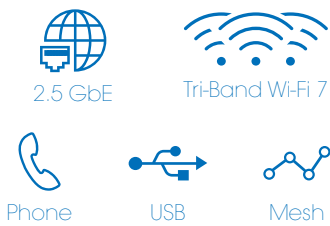
Positioned as the central node of a Wi-Fi Mesh system, it ensures unprecedented performance of the Wi-Fi 7 network covering every corner of the property.

USB

Tri-Band Wi-Fi

Phones

Internet

Ethernet

IMPALA **OVERVIEW**

- Internet Connection with integrated GPON 2.5 Gbit/1.25 Gbit
- Extremely High Throughput Wi-Fi 7:
  - Tri-band WLAN router support for 2.4, 5 GHz and 6 GHz bands
  - Multi-Link Operation
  - 4k-QAM, 320 MHz bandwidth support on 6 GHz
  - Channel puncturing on 5 GHz and 6 GHz
- Modular solution with multiple Wi-Fi configurations:
  - Dual-band: (4x4 + 4x4)
  - Tri-band (2x2 + 4x4 + 4x4)
- End-user multiple connections via wireless LAN and 2.5 GbE ports
- Stable and reliable video streaming over Wi-Fi, with Easy Mesh support
- 2x FXS ports for analog telephones, POS and fax
- SIP phones local management
- 1x USB 2.0 port for network printers and storage
- Simple configuration over a browser interface
- Secure remote access over the Internet with native VPN (IPSec)
- SW Packages options:
  - Advanced QoS (Wi-Fi QoS Experience)
  - Enterprise (SDN, NFV, LxC docker, Advanced Routing protocols, i.e.RIP, BGP, OSPF)
  - Mobile Failover (with Dual-WAN Routing support)
  - Cyber-security (3rd party application integrated)
- QoE agent: SW application monitoring gateway performances (Wi-Fi, WAN, VOIP and more)
- SmartApp application for device and home network management
- Anti-phishing solution for enhanced network security

2.5 Gigabit Ethernet Gateway with Wi-Fi 7
Springbok

WI-FI 7

2.5 GbE · Tri-Band Wi-Fi 7 · Phone · USB · Mesh

WI-FI 7 - UNLEASHING NEXT-GENERATION CONNECTIVITY

Springbok enables Internet access through an ultra-fast 2.5 Gigabit Ethernet WAN interface.

It supports tri-band Wi-Fi 7 technology and incorporates all the innovations of the latest standard. These include a 320MHz ultrawide channel, 4k-QAM modulation, Preamble Puncturing, and Multi-Link Operation.

Positioned as the central node of a Wi-Fi Mesh system, it ensures unprecedented performance of the Wi-Fi 7 network covering every corner of the property.
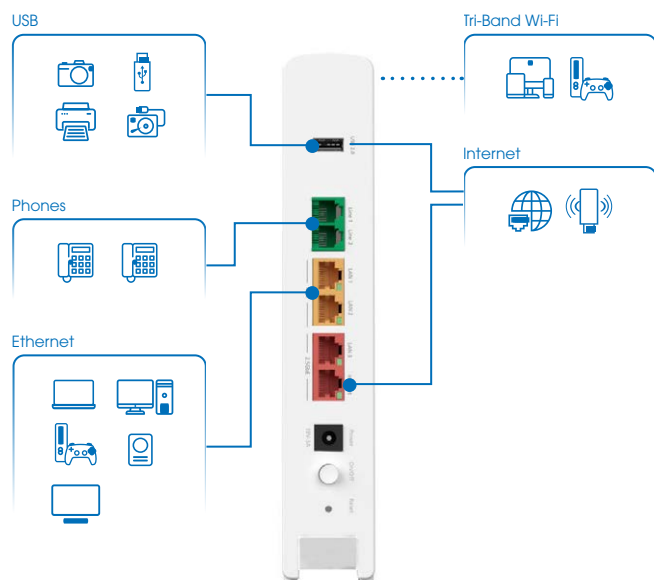
SPRINGBOK **OVERVIEW**

- Internet connection through integrated 2.5 GbE
- Extremely High Throughput Wi-Fi 7:
  - Tri-band WLAN router support for 2.4, 5 GHz and 6 GHz bands
  - Multi-Link Operation
  - 4k-QAM, 320 MHz bandwidth support on 6 GHz
  - Channel puncturing on 5 GHz and 6 GHz
- Modular solution with multiple Wi-Fi configurations:
  - Dual-band: (4x4 + 4x4)
  - Tri-band (2x2 + 4x4 + 4x4)
- End-user multiple connections via wireless LAN and 2.5 GbE ports
- Stable and reliable video streaming over Wi-Fi, with Easy Mesh support
- 2x FXS ports for analog telephones, POS and fax
- SIP phones local management
- 1x USB 2.0 port for network printers and storage
- Simple configuration over a browser interface
- Secure remote access over the Internet with native VPN (IPSec)
- SW Packages options:
  - Advanced QoS (Wi-Fi QoS Experience)
  - Enterprise (SDN, NFV, LxC docker, Advanced Routing protocols, i.e.RIP, BGP, OSPF)
  - Mobile Failover (with Dual-WAN Routing support)
  - Cyber-security (3rd party application integrated)
- QoE agent: SW application monitoring gateway performances (Wi-Fi, WAN, VOIP and more)
- SmartApp application for device and home network management
- Anti-phishing solution for enhanced network security

Whole Home Mesh Wi-Fi 7 System

Deimos

WI-FI 7

2.5 GbE   GbE   Tri-Band Wi-Fi 7   Mesh

NEW DIMENSION OF
WI-FI EXPERIENCE AT YOUR PLACE

Deimos elevates your network connectivity to unprecedented heights. Seamlessly extending the reach of your Wi-Fi 7 network, this advanced mesh node brings a new dimension of coverage and performance to your space. It can deliver up to 5 Gbps to end user.

Enjoy uninterrupted streaming, gaming, and browsing across every corner of your home or office, as the Wi-Fi 7 Mesh Node dynamically expands your network's range and strength. It is easy to set up using the attached companion app, running on both Android and iOS devices.

It supports tri-band Wi-Fi 7 technology and incorporates all the innovations of the latest standard. These include a 320MHz ultrawide channel, 4k-QAM modulation, Preamble. Puncturing, and Multi-Link Operation.

As a Range Extender, Deimos can operate with a meshenabled Residential/Small Business gateway, such as Cheetah, Jaguar, Springbok or Impala.
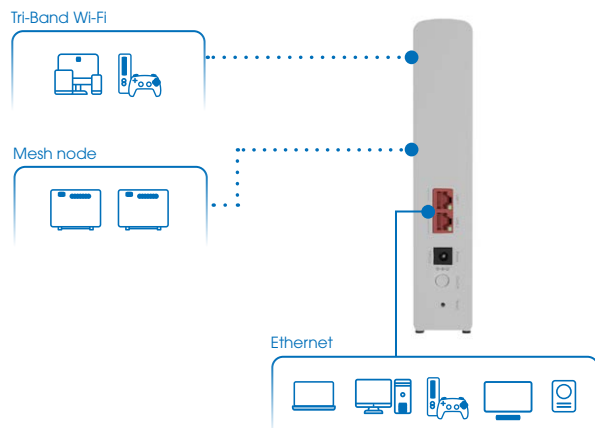
DEIMOS **OVERVIEW**

- 2x 2.5 GbE port to connect Smart TV, PC or game console.
- Extremely High Throughput Wi-Fi 7:
  - Tri-band WLAN router support for 2.4, 5 GHz and 6 GHz
  - bands with extremely high wireless speed (BE15000)
  - Multi-Link Operation
  - 4k-QAM, 320 MHz bandwidth support on 6 GHz
  - Channel puncturing on 5 GHz and 6 GHz
- EasyMesh 4.0 support
- Automatic channel selection
- Airtime Fairness
- Band Steering
- Zero-wait DFS
- Wi-Fi diagnostics
- MU-MIMO DL/UL
- OFDMA, TWT, BSS coloring

Tri-Band Wi-Fi

Mesh node

Ethernet

Fiber-Optic Multi-WAN Gateway for Residential Premium Market

ThunderAX

Wi Fi 6™ CERTIFIED

| XGS-PON | GPON | xDSL | 2.5 GbEt | Dual Wi-Fi 6 | Phone | USB | Mesh |

GATEWAY TO **THE WORLD OF SERVICES**

ThunderAX fully exploits the efficiency of Wi-Fi 6 and a 2.5 Gbit Ethernet LAN port to provide exceptional network performance to end-users. Equipped with the quad-core processor, it addresses the needs of highly-demanding users, who expect low latency and fast data processing. ThunderAX offers Mesh capability that ensures perfect coverage of the wireless network in every part of the house.

Thanks to its modular architecture, ThunderAX can be deployed in different access networks. These include: xDSL, GPON, XGS-PON and WAN Ethernet.

Dual-Band Wi-Fi

Internet

Phones

Ethernet

USB
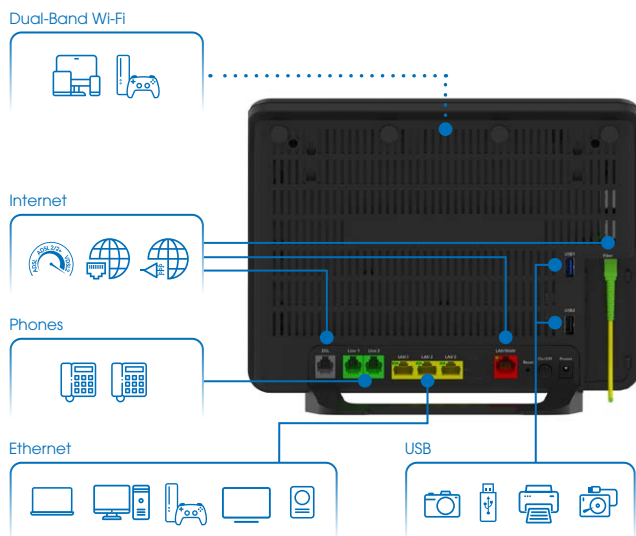
ThunderAX - PREMIUM **OVERVIEW**

- Multiple WAN access technologies:
  - SFP+ cage for Fiber point-to-point or GPON up to 10 Gbit symmetric speed (XGS-PON)
  - VDSL/ADSL2+ on-board modem supporting EVDSL profile
  - GPON 2.5 Gbit/1.25 Gbit on-board modem to allow the migration from xDSL to GPON
- Automatic WAN failover mechanism over 3G/4G USB dongle
- Top-class Wi-Fi experience (Wi-Fi 6); WLAN router support for 2.4 and 5 GHz bands (AX3600), 160 MHz is also supported
- End-user multiple connections via Wi-Fi, 3x GbE and 1x 2.5GbE ports
- Stable and reliable video streaming over Wi-Fi, with Easy Mesh support
- 2x FXS ports for analog telephones, POS and fax
- SIP phones local management
- 1x USB 3.0 and 1x USB 2.0 ports for network printers and storage
- Simple configuration over a browser interface
- Advanced features pack:
  - Secure remote access over the Internet with native VPN (IPSec),
  - Extensive Cisco-like CLI
  - Advanced dynamic routing protocols (BGP, VRRP, OSPF) and other functions
- Linux container and dockers for 3rd party applications
- QoE agent: SW application that provides remote monitoring of gateway performance (Wi-Fi, WAN, VOIP and more)
- Smart application for device and home network management
- Anti-phishing solution for enhanced network security

ThunderAX

WiFi 6 CERTIFIED

XGS-PON GPON 10 GbE Dual Wi-Fi 6

Phone USB Mesh
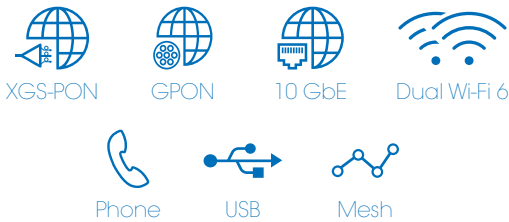
GATEWAY TO **THE WORLD OF SERVICES**

ThunderAX delivers the ultimate broadband experience to end-users. Deployed in XGS-PON networks, it provides up to 10 Gbit transmissions speed directly to connected client devices. It fully exploits the efficiency of Wi-Fi 6 and a 10 Gbit Ethernet LAN network. ThunderAX offers Mesh capability that ensures perfect coverage and reliability of the wireless network.

Slick design makes ThunderAX a product suitable for multiple operators' network environments, such as xDSL, GPON, XGS-PON or WAN Ethernet network.

Phones

Dual-Band Wi-Fi

Ethernet

Internet

USB
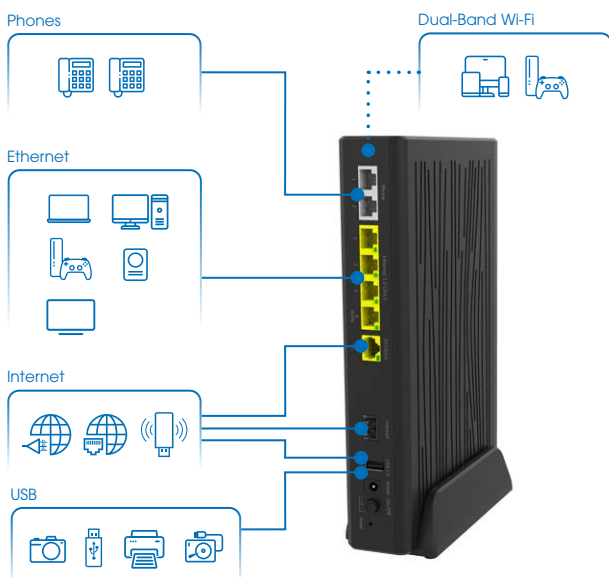
ThunderAX - SMB **OVERVIEW**

- Multiple WAN access technologies:
  - SFP+ cage for Fiber point-to-point or GPON up to 2.5Gbit/1.25Gbit or XGS-PON up to 10 Gbit symmetric speed
  - GPON 2.5 Gbit/1.25Gbit on-board
- Automatic WAN failover mechanism over 3G/4G USB dongle
- Top-class Wi-Fi experience (Wi-Fi 6); WLAN router support for 2.4 and 5 GHz bands (AX3600), 160 MHz is also supported
- End-user multiple connections via Wi-Fi, 4x GbE or 1x 10 GbE port
- Stable and reliable video streaming over Wi-Fi, with Easy Mesh support
- 2x FXS ports for analog telephones, POS and fax
- SIP phones local management
- 1x USB 3.0 and 1x USB 2.0 port
- Simple configuration over a browser interface
- Advanced features pack:
  - Secure remote access over the Internet with native VPN (IPSec) with up to 5 Gbit performance,
  - Extensive Cisco-like CLI
  - Advanced dynamic routing protocols (BGP, VRRP, OSPF) and other functions
- Linux container and dockers for 3rd party applications
- QoE agent: SW application that provides remote monitoring of gateway performance (Wi-Fi, WAN, VOIP and more)
- Smart application for device and home network management
- Anti-phishing solution for enhanced network security

GPON Gateway with Wi-Fi 6E
SparrowAXE

WI-FI 6E

GPON

Tri-Band Wi-Fi 6E

Phone

USB

Mesh
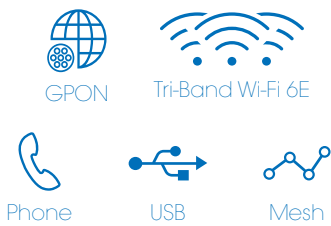
WI-FI 6E - SUPER EFFICIENT FOR
DENSE WI-FI ENVIRONMENTS

SparrowAXE enables Internet access through an ultra-fast GPON WAN interface. It supports the latest Wi-Fi 6E standard, which efficiently serves wirelessly connected clients in dense network environments.

SparrowAXE ensures state-of-the-art performance of data routing across the entire network. It's powered by a new generation processor aimed to ensure the highest connection speed and powerful processing for the residential users.

USB

Phones

Ethernet

Tri-Band Wi-Fi
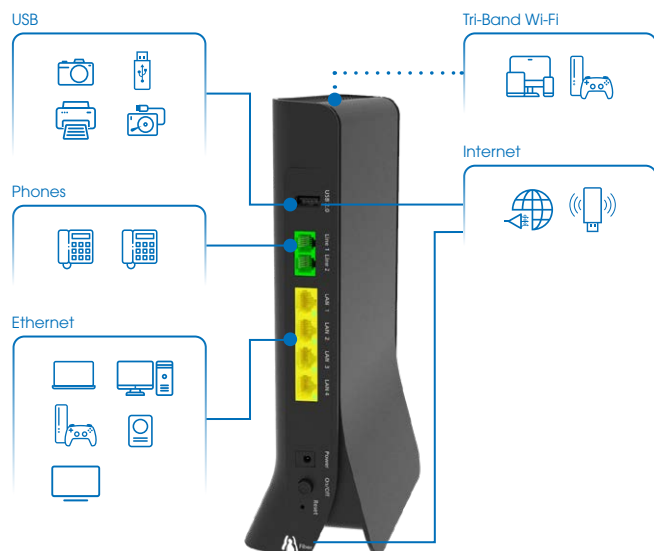
Internet

SparrowAXE **OVERVIEW**

- Internet Connection with integrated GPON 2.5 Gbit/1.25 Gbit
- Automatic WAN failover mechanism over 3G/4G USB dongle
- Top-class Wi-Fi experience (Wi-Fi 6E); WLAN router support for 2.4, 5 GHz and 6 GHz bands (AXE10200), 160 MHz is also supported
- End-user multiple connections via Wi-Fi and 4x GbE ports
- Stable and reliable video streaming over Wi-Fi, with Proprietary Mesh solution
- 2x FXS ports for analog telephones, POS and fax
- SIP phones local management
- 2x USB 2.0 ports
- Simple configuration over a browser interface
- Extensive Cisco-like CLI
- QoE agent: SW application that provides remote monitoring of gateway performance (Wi-Fi, WAN, VOIP and more)
- Smart application for device and home network management
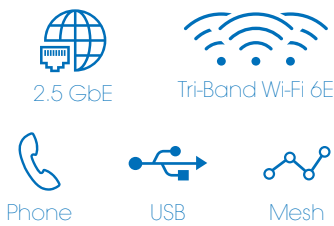- Anti-phishing solution for enhanced network security

2.5 Gb Ethernet Gateway with Wi-Fi 6E
RobinAXE

WI-FI 6E

2.5 GbE

Tri-Band Wi-Fi 6E

Phone

USB

Mesh

WI-FI 6E - SUPER EFFICIENT FOR
DENSE WI-FI ENVIRONMENTS

RobinAXE enables Internet access through an ultra-fast 2.5 Gigabit Ethernet WAN interface. It supports the latest Wi-Fi 6E standard, which efficiently serves wirelessly connected clients in dense network environments.

RobinAXE ensures state-of-the-art performance of data routing across the entire network. It's powered by a new generation processor aimed to ensure the highest connection speed and powerful processing for the residential users.

USB

Tri-Band Wi-Fi

Internet

Phones

Ethernet
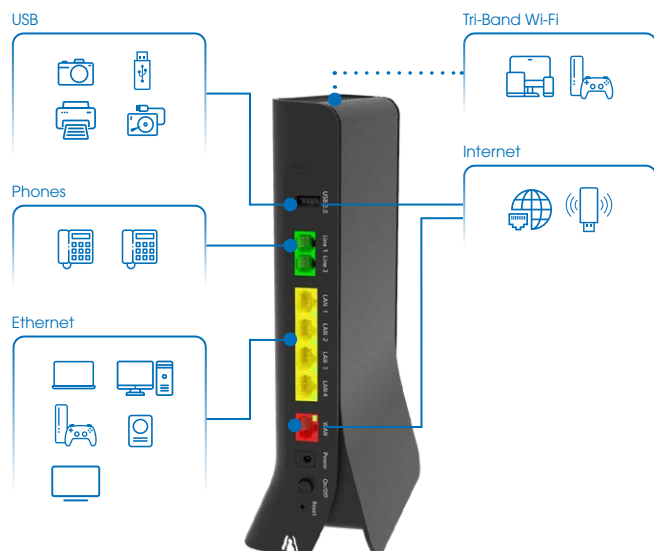
RobinAXE **OVERVIEW**

- Internet connection with integrated 2.5 GbE
- Automatic WAN failover mechanism over 3G/4G USB dongle
- Top-class Wi-Fi experience (Wi-Fi 6E); WLAN router support for 2.4, 5 GHz and 6 GHz bands (AXE10200), 160 MHz is also supported
- End-user multiple connections via Wi-Fi and 4x GbE ports
- Stable and reliable video streaming over Wi-Fi, with Proprietary Mesh solution
- 2x FXS ports for analog telephones, POS and fax
- SIP phones local management
- 2x USB 2.0 ports
- Simple configuration over a browser interface
- Extensive Cisco-like CLI
- QoE agent: SW application that provides remote monitoring of gateway performance (Wi-Fi, WAN, VOIP and more)
- Smart application for device and home network management
- Anti-phishing solution for enhanced network security

CrowAX

Wi Fi 6™ CERTIFIED

xDSL · GbE · Dual Wi-Fi 6 · Phone · USB · Mesh

RELIABLE AND
HIGH-PERFORMING WI-FI 6

CrowAX works in an xDSL network and provides reliable Wi-Fi for home and office. Thanks to EVDSL support, it uses the maximum speed of the operator's copper network and ensures high-speed data routing across the entire LAN.

Dual-Band Wi-Fi

Internet

Phones

Ethernet

USB
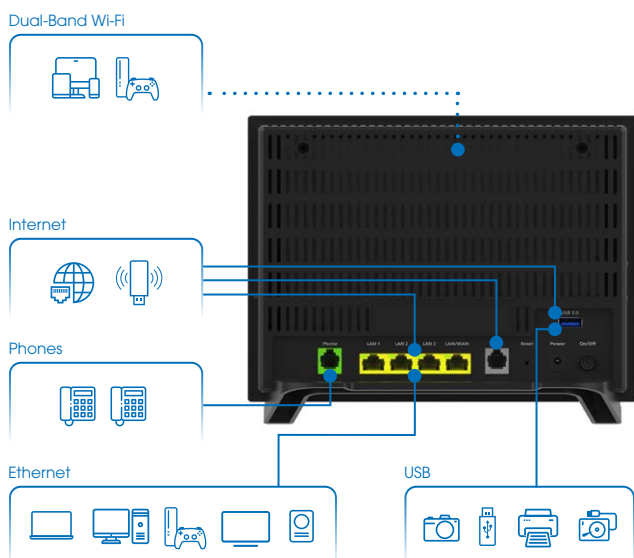
CrowAX **OVERVIEW**

- Internet connection with integrated VDSL/ADSL2+ modem supporting EVDSL profile
- Router operation also possible with GbE port and mobile USB dongle
- Automatic WAN failover mechanism over 3G/4G USB dongle
- End-user multiple connections via Wi-Fi and 4x GbE ports
- Reliable Wi-Fi experience (Wi-Fi 6); WLAN router support for 2.4 and 5 GHz bands (AX5400), 160 MHz is also supported
- Stable and reliable video streaming over Wi-Fi, with Easy Mesh support
- WLAN guest access – secure surfing for friends and visitors
- 1x FXS port for analog telephones, POS and fax
- SIP phones local management
- 1x USB 3.0 port for network printers and storage
- Simple configuration over a browser interface
- Extensive Cisco-like CLI
- QoE agent: SW application that provides remote monitoring of gateway performance (Wi-Fi, WAN, VOIP and more)
- Smart application for device and home network management
- Anti-phishing solution for enhanced network security

Whole Home Mesh Wi-Fi 6E System
MoonAXE

WI-FI 6E

2.5 GbE   Tri-Band Wi-Fi 6E   Mesh

WIRELESS CONVENIENCE
IN EVERY PART OF THE HOUSE

MoonAXE is a high-performing modular Wi-Fi mesh system. It extends the range of the Wi-Fi network to any desired location within the end-user's property. Thanks to an ultra-fast, concurrent tri-band Wi-Fi 6E network, the MoonAXE provides up to 7.8 Gbit/s wireless connection speed. It is easy to set up using the attached companion app, running on both Android and iOS devices.

As a Range Extender, MoonAXE can operate with a mesh-enabled Residential/Small Business gateway, such as ThunderAX, CrowAX or SparrowAXE.

MoonAXE **OVERVIEW**

- 1x GbE port and 1x 2.5 GbE port to connect Smart TV, PC or game console.
- Top-class Wi-Fi experience (Wi-Fi 6E); WLAN support for 2.4, 5 GHz and 6 GHz bands (AXE7800), 160 MHz is also supported
- Proprietary Mesh solution
- Automatic channel selection
- Airtime Fairness
- Band Steering
- Zero-wait DFS
- Wi-Fi diagnostics
- MU-MIMO DL/UL
- OFDMA, TWT, BSS coloring

Tri-Band Wi-Fi

Mesh node

Ethernet

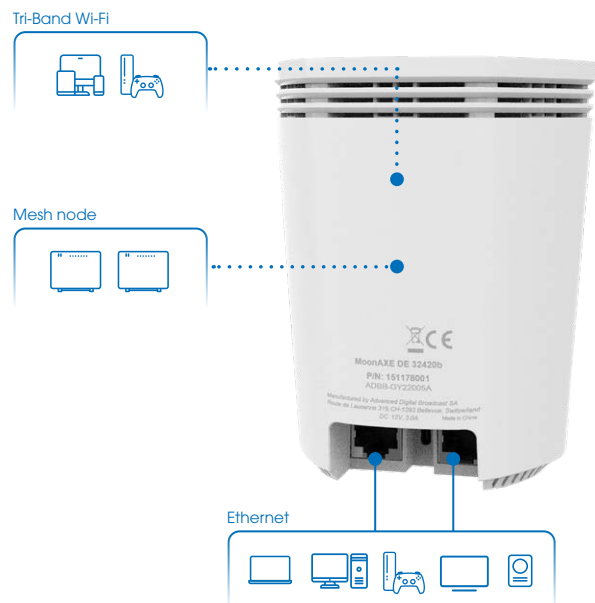# MoonAX

Wi Fi 6™

GbE   Dual Wi-Fi 6   Mesh

WIRELESS CONVENIENCE
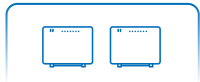## IN EVERY PART OF THE HOUSE

MoonAX is a high-performing modular Wi-Fi mesh system. It extends the range of the Wi-Fi network to any desired location within the end-user's property. Thanks to an ultra-fast, concurrent dual-band Wi-Fi 6 network, the MoonAX provides up to 5.4 Gbit/s wireless connection speed. It is easy to set up using the attached companion app, running on both Android and iOS devices.

As a Range Extender, MoonAX can operate with a mesh-enabled Residential/Small Business gateway, such as ThunderAX, CrowAX, SparrowAXE.

MoonAX **OVERVIEW**

- 2x GbE ports to connect Smart TV, PC or game console.
- Top-class Wi-Fi experience (Wi-Fi 6); WLAN support for 2.4, 5 GHz bands (AXE5400), 160 MHz is also supported
- Easy Mesh support
- Automatic channel selection
- Airtime Fairness
- Band Steering
- Zero-wait DFS
- Wi-Fi diagnostics
- MU-MIMO DL/UL
- OFDMA, TWT, BSS coloring
- Multicast-to-unicast conversion for reliable video streaming
- DHCP, IPv6 and DNS client

Dual-Band Wi-Fi

Mesh root node

Ethernet

ADB's Broadband Gateways

ADB's gateway products range from entry level to future proof high-end devices that completely address market needs for broadband access. This includes ensuring a perfect quality of experience for triple and quad-play subscribers.

ADB gateways combine various functions of modems, routers, and wireless access points, into a single device that provides seamless and secure broadband connectivity.

ADB gateways are equipped with the epiCentro® software stack, a full-featured and scalable embedded middleware providing state-of-the-art IPv4/IPv6 routing, QoS, high-security VoIP protocols and extensive management capabilities.

Thanks to its open and modular architecture, the epiCentro® stack can be assembled in profiles tailored to the characteristics of specific devices and deployment requirements, while at the same time enabling efficient field upgrades.

ADB Broadband Gateways
Overview

ADB Products	WAN Access				LAN/WAN			WLAN			Others	
	ADSL/VDSL	Fiber P2P	GPON	XGS-PON (10 Gbit)	10 GbE	2.5 GbE	GbE	WLAN	Wi-Fi speed (Mbit/s)	MESH	USB	VoIP / FXS
↓ Gateways												
Cheetah				On Board	1	4		Wi-Fi 7 (802.11BE) 2.4 GHz: 4x4 5 GHz: 4x4 6 GHz: 4x4	19000	EM4.0	1	2
Jaguar					2	4		Wi-Fi 7 (802.11BE) 2.4 GHz: 4x4 5 GHz: 4x4 6 GHz: 4x4	19000	EM4.0	1	2
Impala			On Board			1	2	Wi-Fi 7 (802.11BE) (*)	(*)	EM4.0	1	1
Springbok						2	2	Wi-Fi 7 (802.11BE) (*)	(*)	EM4.0	1	1
ThunderAX Premium	EVDSL	SFP cage+	On Board/ SFP cage+	SFP cage+		1	3	Wi-Fi 6 (802.11AX) 2.4 GHz: 4x4 5 GHz: 4x4	3600	EM2.0	2	2
ThunderAX SMB		SFP cage+	On Board/ SFP cage+	SFP cage+	1		4	Wi-Fi 6 (802.11AX) 2.4 GHz: 4x4 5 GHz: 4x4	3600	EM2.0	2	2
SparrowAXE			On Board				4	Wi-Fi 6 (802.11AX) 2.4 GHz: 2x2 5 GHz: 4x4 6 GHz: 4x4	10200	Proprietary solution	1	2
RobinAXE						1	4	Wi-Fi 6 (802.11AX) 2.4 GHz: 2x2 5 GHz: 4x4 6 GHz: 4x4	10200	Proprietary solution	1	2
CrowAX	EVDSL						4	Wi-Fi 6 (802.11AX) 2.4 GHz: 2x2 5 GHz: 4x4	5400	EM3.0	1	1
↓ Mesh Nodes												
Deimos						2		Wi-Fi 7 (802.11BE) 2.4 GHz: 2x2 5 GHz: 2x2 6 GHz: 4x4	15000	EM4.0		
MoonAXE						1	1	Wi-Fi 6 (802.11AX) 2.4 GHz: 2x2 5 GHz: 4x4 6 GHz: 2x2	7800	Proprietary solution		
MoonAX							2	Wi-Fi 6 (802.11AX) 2.4 GHz: 2x2 5 GHz: 4x4	5400	EM3.0		

(*) Impala and Springbok exist in different dual and tri-band configurations

ADB creates and deploys the most complete and efficient system solutions to bring best video experience and broadband services to the Multi-Gigabit Home and Enterprise environments.

We ensure that ADB devices and software converge perfectly to deliver the best customer experience. We enable operators with top-tier back-office tools that provide extensive visibility, support, and control of their in-field deployments.

ADB's offer is addressed to Pay-TV and Telco operators, content distributors, and hospitality property owners.

300+ employees

75% engineers

HQ Geneva

67M CPEs deployed

Social responsibility rank

R&D sites in Europe, US and Asia

28 years of award winning industry firsts

Solutions for Broadband, Video Entertainment and Business TV

> 300 patents

"A" class IT security rating

Contact us: sales@adbglobal.com

Online brochure