



EAGLE L

Dual-Band Wi-Fi 6 Extender

OWA0131



Technicolor's EAGLE L, a Dual-Band extender that integrates two Gigabit Ethernet ports, is equipped with the latest Wi-Fi 6 technology, allowing for faster throughputs, better performance in dense multi-user environments and improved battery lifetime of connected devices. Finally, the EAGLE L was designed with sufficient horsepower to propagate multi-gigabit speeds throughout the home and support additional value-added services.

The Perfect solution to support Premium Wi-Fi Full Home Coverage

With its support of Dual-band concurrent Wi-Fi 6 (IEEE 802.11ax) for both the 2.4 GHz and 5 GHz bands, the OWA0131 is a powerful and future-proof companion access point to extend the main gateway coverage, improving the in-home user experience and increasing the total throughput in the home.

Wi-Fi 6 Technology

Wi-Fi 6 – a stronger, higher performing wireless connectivity – is a major evolution that improves gigabit-services delivery through providing reliable connections to a large number of devices. Used in both the 2.4 and 5 GHz bands, Wi-Fi 6 is the first major upgrade for Wi-Fi at 2.4 GHz since Wi-Fi 4 in 2009. While it keeps the data rate the same as Wi-Fi 5, Wi-Fi 6 increases signal robustness to accommodate more devices and allow better sharing of the wireless channel.

Wi-Fi 6 provides higher maximum data rates on the network by using higher orders of modulation – up to 1024 QAM from Wi-Fi 5's 256 QAM. It lowers latency by dramatically reducing delay times as data is sent, improving load times and helping avoid disconnects and other issues benefitting applications such as on-line gaming. Additionally, Wi-Fi 6 provides a mechanism to reduce interference between neighboring routers through efficient spectrum use, improving service quality levels to customers that live in high Wi-Fi density areas. Finally, Wi-Fi 6 introduces a concept called Target Wake Time (TWT), allowing the access point to put clients' Wi-Fi radio in a sleep mode until it's needed, reducing power consumption and prolonging battery life.

Featuring the next-generation Wi-Fi 6 technology on both the 2.4 GHz and 5 GHz bands, the OWA0131 makes optimal use of the radio spectrum allowing for faster throughputs, better performance in dense multi-user environments and saving battery lifetime of connected devices. With its optimized antenna configuration, the OWA0131 enables a best in class coverage.

The OWA0131 supports Wi-Fi XL™, a differentiated Wi-Fi solution that delivers multi-user gigabit Wi-Fi services throughout the home.

Features at a Glance

- 2 Gigabit Ethernet ports
- Dual-Band concurrent Wi-Fi radios
 - 2.4 GHz (2x2) Wi-Fi 6 (IEEE 802.11ax)
 - 5 GHz (4x4) Wi-Fi 6 (IEEE 802.11ax)
- EasyMesh (agent) enabled
 - Ready for EasyMesh R2 upgrade
- Enabled to support
 - Technicolor Wi-Fi XL™
 - Technicolor Navigate mobile app
- 1 highspeed USB 2.0 port (optional)
- Future-proof Added Value Services platform supporting Technicolor HOMEWARE
- Extensive remote management
- Non-service-affecting platform software upgrades (dual bank memory)
- IPv4 & IPv6 enabled
- Designed according to the latest ECO standards



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Wi-Fi EasyMesh Technology

EasyMesh™, a standards-based and open approach to deploying multiple access points in the home, gives consumers both freedom of choice and easy setup of Wi-Fi mesh networks. EasyMesh certified devices from different manufacturers are fully compatible and can be used to create whole home Wi-Fi coverage.

Enriched with advanced diagnostics capabilities, Technicolor's EasyMesh certified products intelligently select the most appropriate access point & frequency bands and maximize performance for every user and device in the home. All Technicolor products are software upgradable from and backwards compatible with the EasyMesh R1.

Technicolor's EasyMesh products bring the following capabilities:

- Easy setup for automatic device onboarding and configuration
- Standardized network intelligence gathering mechanisms that enable roaming, band steering and load balancing to maximize network performance
- Interoperability of EasyMesh certified access points from multiple vendors.
- Standardized Wi-Fi diagnostics (R2)
- Guaranteed service continuity through improved channel management (R2)
- Traffic separation for guest accounts (R2)
- Enhanced client steering (R2)

Technicolor Wi-Fi XL

Technicolor is proud to deliver Wi-Fi XL™, a superior whole home Wi-Fi solution combining the Technicolor wireless expertise embedded in our new home gateways, extenders and set-top-boxes, with the latest Wi-Fi alliance technology standards and additional layers of innovative software for more advanced functionalities.

By combining several products, technologies and software Wi-Fi XL solves multiple pain points:

- First, it extends Wi-Fi coverage to all corners of the home, transmitting the gigabit access-speeds that enter it.
- Secondly, it provides seamless roaming by integrating EasyMesh and guarantees a smooth experience over time through the use of advanced software tracking that solves wireless issues as they arise.
- Lastly, it caters to the new reality of an ever-increasing amount of Wi-Fi users that have dedicated needs in terms of latency, bandwidth and priority (i.e. Audio and Video).

Wi-Fi XL enables optimized connectivity and seamless interactions for every user, every time and in every corner of their home. This means seamless Wi-Fi, without exception – reducing the number of calls to your helpdesk and driving increased customer satisfaction, loyalty, and lifetime value.

Wi-Fi XL™ also introduces Technicolor Navigate, a mobile app solution interacting with all in-home Technicolor Wi-Fi XL products. Navigate allows the user to monitor, configure and optimize their whole home Wi-Fi network and topology.

Leapfrogging Performance

Equipped with a System on Chip (SoC) featuring a next-gen 1.5 GHz triple-core ARMv7 processor (8.5k DMIPS), the OWA0131 surpasses any current extender performance. Combining these features with an increased Level 2 cache, this smart extender is ideally suited to run multiple demanding applications and services such as Wi-Fi services, security services, deep packet inspection and powerful encryption algorithms simultaneously.

Flexible & Future-Proof Software Stack

The OWA0131 is powered with HOMEWARE, a reliable and managed middleware developed by Technicolor, enabling our operator customers to tap into a thriving ecosystem of partners to bring the most innovative services to their subscribers.

HOMEWARE is open: based on Open Source Software that we extended to make it carrier grade.

HOMEWARE is apps-ready: with its dedicated and short learning curve SDK, it allows NSPs to generate new services and improve ARPU by integrating third-party applications. It also pre-integrates Technicolor's partners apps (via the Technicolor HERO Program) and delivers a full apps Life Cycle Management to improve broadband service availability by decoupling the upgrade and maintenance of applications from the extender core software.

HOMEWARE is secure: it uses an overall software architecture with end-to-end security by design, from bootstrap to the installation of applications via life cycle management.

HOMEWARE is interoperable: working with multiple network components, allowing a shorter time to market, greater freedom for the service provider to choose the network components or to deploy in an environment with multiple vendors in the network. It also reduces complexity for the service provider as a single software stack that can deal with a vast variety of environments.

Highest Security

The OWA0131 supports powerful wireless security mechanisms, such as Wi-Fi Protected Access (WPA, WPA2 and WPA3) together with the secure and user friendly Wi-Fi Protected Setup (WPS) connection and configuration mechanism for connecting wireless clients.

In addition, the OWA0131 supports multiple wireless networks (mSSID) enabling operators to set up independent virtual wireless access points, including controlled wireless hotspots. These additional wireless networks allow other wireless users to enjoy high-performance access without any compromise on the integrity of the basic network, thus keeping the original network access limited and secure.

USB 2.0 port (optional)

The OWA0131 comes optionally with a highspeed USB 2.0 master port to support devices such as IoT devices or other USB connected services.

Technical Specifications

Hardware

■ CPU	1.5 GHz triple-core ARMv7 CPU (8.5k DMIPS)
■ Memory	128 MB Flash 256 MB RAM
■ Interfaces LAN	1 autosensing 10/100/1000 Base-T Ethernet LAN ports 1 Wi-Fi 6 (IEEE 802.11ax) 2.4 GHz radio 1 Wi-Fi 6 (IEEE 802.11ax) 5 GHz radio 1 USB 2.0 master port (optional)
■ Buttons & LEDs	WPS button (with integrated status LED) Reset button (recessed) Power button
■ Power input	DC jack
■ Power supply	12 VDC external PSU
■ AC Voltage	100 - 240 VAC, 50 - 60 Hz (switched mode power supply)
■ Operating temperature	0 - 40 °C (32 - 104 °F)
■ Operating humidity	20 - 80 % RH non-condensing
■ Storage temperature	-20 - 70 °C (-4 - 158 °F)
■ Dimensions	90 x 180 x 80 mm (3.54 x 7.09 x 3.15 in.)

Wi-Fi

■ Full dual-band concurrent Wi-Fi radios, Wi-Fi certified®	2x2 Wi-Fi 6 (IEEE 802.11ax) 2.4 GHz access point 4x4 Wi-Fi 6 (IEEE 802.11ax) 5 GHz access point
■ Wi-Fi security levels	WPA2™-Enterprise WPA3™-Personal / WPA2™-Personal WPA3™ + WPA2™ mixed mode (SAE, AES)
■ Wi-Fi Protected Setup (WPS™)	
■ Wi-Fi Multimedia (WMM®) and WMM-Power Save	
■ Up to 4 BSSIDs (virtual AP) support per radio interface	
■ Wireless hotspot capabilities	
■ Band Steering	
■ Wi-Fi EasyMesh™ R1 agent (upgrade to EasyMesh R2 supported)	
■ MIMO 2.4 GHz Wi-Fi features	2.4 GHz frequency bands 2400 - 2483.5 MHz 2.4 GHz Wi-Fi power Standard up to 20 dBm (100 mW EIRP) High power (optional) up to 27 dBm (500 mW EIRP) SGi (Short Guard Interval) STBC (Space-Time Block Code) 20, 40 MHz bandwidths 2x2 antenna
■ MU-MIMO 5 GHz Wi-Fi features	5 GHz frequency bands 5150 - 5250 MHz 5250 - 5725 MHz with DFC 5 GHz Wi-Fi power up to 30 dBm (1000 mW EIRP) SGi (Short Guard Interval) STBC (Space-Time Block Code) LDPC (FEC) Multi-User MIMO TPC (Transmit Power Control) OCAC (Off Channel Availability Check) 20, 40, 80, 160 MHz bandwidths 4x4 antenna
■ RX/TX switched diversity	
■ Dynamic rate switching for optimal wireless performance	
■ Manual/auto radio channel selection	

Management

■ Customizable user-friendly GUI via HTTP and HTTPS	
■ Command Line Access SHell (CLASH)	SSH v2
■ Web services API for remote access (portal, management, diagnostics, applications, ...)	
■ Web-browsing intercept (install/diagnostics/captive portal)	
■ TR-069 CPE WAN Management Protocol (CWMP)	TR-098 Internet Gateway Device (IGD) management TR-111 home network device management TR-140 storage service provisioning TR-143 network throughput performance tests and statistical monitoring TR-157a3 Life Cycle Management (LCM) TR-181i2 Device:2 data model
■ Zero-touch autoprovisioning	

Services

■ Life Cycle Management (LCM) for developing advanced services support	
■ Open architecture for 3rd party application and UI development	
■ Enabled to support Technicolor Managed Services	Wi-Fi XL™ Navigate mobile app

Quality of Service

■ Wireless QoS	WMM (BE, BK, VI, VO access categories) queuing and scheduling
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Security

■ Multilevel access policy	
■ Secure boot	
■ Security and service segregation per SSID	

Package contents

■ OWA0131	
■ Power supply unit	
■ Quick Setup Guide	
■ Safety Instructions & Regulatory Information	
■ Ethernet cable	



TECHNICOLOR DELIVERY TECHNOLOGIES

8-10 rue du Renard, 75004 Paris, France

www.technicolor.com

SALES CONTACT

For more information please get in touch with your usual sales representative or use the following email:

contactsales@technicolor.com

