



GAZELLE Le

Dual Band Wi-Fi 6

Smart Ultra-Broadband Ethernet Gateway

EWA1330TCS for Telia Company



Technicolor's GAZELLE Le EWA1330TCS is a unique future proof service gateway that integrates a 2.5 Gigabit Ethernet WAN and 2.5 Gigabit Ethernet LAN port. The EWA1330TCS is equipped with the latest Wi-Fi 6 technology, allowing for faster throughputs, better performance in dense multi-user environments and saving battery lifetime of the connected devices. Finally, the EWA1330TCS was designed with ample horsepower, capable of propagating multi-gigabits throughout the home as well as supporting value-added services.

The Perfect solution as high-performance Managed Ethernet router

The EWA1330TCS is a carrier grade smart service gateway featuring a 2.5 Gigabit Ethernet WAN and 2.5 Gigabit Ethernet LAN port and Dual-Band Wi-Fi 6 radio.

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.

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 EWA1330TCS 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 EWA1330TCS enables a best in class coverage.

The EWA1330TCS supports Wi-Fi XL™, a differentiated Wi-Fi solution that delivers multi-user gigabit Wi-Fi services throughout the home.

Features at a Glance

- 2.5 Gigabit Ethernet WAN port
- 2.5 Gigabit Ethernet LAN port
- 3 Gigabit Ethernet LAN ports
- Dual-Band concurrent Wi-Fi radios
 - 2.4 GHz (4x4) Wi-Fi 6 (IEEE 802.11ax)
 - 5 GHz (4x4) Wi-Fi 6 (IEEE 802.11ax)
- Enabled to support
 - Technicolor Wi-Fi XL™
- 1 superspeed USB 3.1 Gen 1 port
- Seamless media sharing
- 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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Best-In-Class Ultra Broadband

The accelerating growth of WAN and LAN traffic is pushing telecom operators to look to ultra-high-speed network technologies to solve the bandwidth crunch.

The dedicated 2.5 Gigabit Ethernet WAN port make the EWA1330TCS the ideal service gateway for deployment in Fiber To The Home (FTTH) scenarios.

Furthermore, the latest wireless technologies ensure robust in-home wireless distribution which reduces wiring complexity and provides true mobility without sacrificing Quality of Service (QoS) and Quality of Experience (QoE) or transfer speeds.

Leapfrogging Performance

Equipped with a System on Chip (SoC) featuring a next-gen 1.5 GHz dual-core ARMv8 processor (8k DMIPS) and XRDP Runner for CPU offload, the EWA1330TCS surpasses any current gateway's performance. Combining these features with an increased Level 2 cache, this smart gateway is ideally suited to run multiple demanding applications and services, such as NAS-quality media sharing, high-speed LTE backup, smart life applications, Wi-Fi services, security services, deep packet inspection and powerful encryption algorithms simultaneously.

Flexible & Future-Proof Software Stack

The EWA1330TCS 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 gateway core software.

HOMEWARE is secure: it uses an overall software architecture with end-to-end security by design, from bootup 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.

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.

Highest Security

The EWA1330TCS Stateful Packet Inspection (SPI) firewall guarantees users the ultimate network security level. Through integration with Network Address & Port Translation (NAPT), the firewall leverages all the Application Level Gateways (ALGs) provided in the NAT context to minimize undesired service impacts.

Advanced smart parental controls, security audit services, access logging and monitoring are optionally available for home, hotspot and mobile data network users to create a fully personalized and time-based access control environment, based on individual user profiles and web usage behaviour.

The EWA1330TCS also 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 EWA1330TCS supports multiple wireless networks (mSSID) enabling 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.

Superspeed USB

The EWA1330TCS comes with superspeed USB 3.1 Gen 1 master ports to support devices such as mass storage devices, enabling transfer speeds multiple times higher than the conventional USB 2.0 and with more power output.

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Technical Specifications

Hardware

■ CPU	1.5 GHz dual-core ARMv8 CPU (8k DMIPS) with XRDP Runner hardware acceleration
■ Memory	512 MB Flash 512 MB RAM
■ Interfaces WAN	1 autosensing 10/100/1000/2500 Base-T Ethernet WAN port
■ Interfaces LAN	1 autosensing 10/100/1000/2500 Base-T Ethernet LAN port 3-port autosensing 10/100/1000 Base-T Ethernet LAN switch 1 Wi-Fi 6 (IEEE 802.11ax) 2.4 GHz radio 1 Wi-Fi 6 (IEEE 802.11ax) 5 GHz radio 1 USB 3.1 Gen 1 master port
■ Buttons & LEDs	Wi-Fi on/off button WPS button Reset button (recessed) Power button 3 status LEDs
■ 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)

Wi-Fi

■ Full dual-band concurrent Wi-Fi radios, Wi-Fi certified®	4x4 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	
■ MIMO 2.4 GHz Wi-Fi features	2.4 GHz frequency bands 2400 - 2483.5 MHz 2.4 GHz Wi-Fi power up to 20 dBm (100 mW EIRP) SGi (Short Guard Interval) STBC (Space-Time Block Code) 20, 40 MHz bandwidths 4x4 antenna
■ MU-MIMO 5 GHz Wi-Fi features	5 GHz frequency bands 5150 - 5250 MHz 5470 - 5725 MHz with Dynamic Frequency Control (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)	
■ AutoWAN sensing™ (automatic selection and configuration of WAN interfaces)	
■ 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	
■ 3G/LTE/4G mobile fall-back WAN connection (through USB adapter)	
■ Enabled to support Technicolor Managed Services	Wi-Fi XL™ (sold separately)
■ VPN client/server scenarios	L2TP/IPSec PPTP OpenVPN
■ Wireless hotspot (optional, on request)	Based on HotSpot 2.0 technologies Passpoint™ GRE tunneling EAP Fon
■ Parental control	URL- and (optional) content-based website filtering Time-based access control (Time of Day)
■ Printer sharing	IPP LPD Server Message Block (SMB) Samba printer sharing
■ Content sharing	Server Message Block (SMB) Samba file server Metadata support

Networking

■ Symmetrical NAT with application helpers (ALGs)	
■ Game and application sharing NAT port maps	
■ DHCP conditional serving & relay	
■ DNS server & relay	
■ IGMPv3 proxy (Fastleave)	
■ IGMP snooping (full routed)	
■ DHCP spoofing	
■ IEEE 802.1q VLAN bridging, multiple bridge instances	
■ MLD Proxy for IPv6	
■ Port Control Protocol (PCP)	
■ Multicast to unicast translation on Wi-Fi interfaces	

IPv6 networking

■ IPv4 / IPv6 dual IP stack	
■ Supported models	PPP(oE) IPoE
■ Transitioning	6rd/6to4/6in4 DS-Lite
■ Stateful connection tracking / stateful inspection firewall	
■ DHCPv6	Stateful/stateless DHCPv6 client Stateless DHCPv6 server Relay Prefix Delegation
■ ICMPv6	
■ 464xlat	
■ MAP-T	

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Technical Specifications

Quality of Service

- IP QoS
 - Flexible classification (ALG aided)
 - IP rate limiting (two-rate remarking/dropping)
 - DSCP (re-)marking
 - Dynamic link fragmentation
- Ethernet QoS
 - Priority or C-VLAN/S-VLAN tagging
 - Ethernet switch port queuing and scheduling
- Wireless QoS
 - WMM (BE, BK, VI, VO access categories) queuing and scheduling

Security

- Stateful Packet Inspection Firewall (SPIF)
- Customizable firewall security levels
- Intrusion detection and prevention
- DeMilitarized Zone (DMZ)
- GRE Tunnel encryption
- Multilevel access policy
- Secure boot
- Security and service segregation per SSID

ECO design

- Wi-Fi on/off button
- WMM-Power Save

Package contents

- GAZELLE Le EWA1330TCS for Telia Company
- Power supply unit
- Quick Setup Guide (optional)
- Safety Instructions & Regulatory Information
- Ethernet cable (optional)



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

