

providing VoIP functions for residential and business users. Thanks to its integrated wireless video bridge featuring a robust chipset and 4x4 antennas, the DGA4130 can support seamless real-time HD video streaming over next generation 802.11ac Wi-Fi without any interruption of your data traffic.

Seamless Video over Next-Gen Wi-Fi

With its support of dual band concurrent Wi-Fi (IEEE 802.11n 2.4 GHz and the next-generation IEEE 802.11ac wireless standard for the 5 GHz band), the DGA4130 is a powerful and future-proof smart gateway enabling high-speed wireless HD video streaming inside the home. Thanks to its integrated wireless video bridge featuring a robust chipset and 4x4 antennas, it can support multiple HD TV channels over the clean 5 GHz radio. Furthermore, its advanced architecture guarantees a very low packet error rate on the wireless link, resulting in a 100% smooth and flicker-free wire-quality viewing experience.

Simultaneously, it guarantees uninterrupted transmission of data services over IEEE 802.11n using the 2.4 GHz band.

Superspeed USB

The DGA4130 comes with superspeed USB 3.0 master ports to support mass storage devices, LTE and 4G USB adapters, enabling transfer speeds multiple times higher than the conventional USB 2.0.

Flexible & Future-Proof Software Stack

The DGA4130 is enriched with Technicolor Homeware, a reliable and managed middleware that offers an open architecture with multiple application environments fit to open up the connected home and deliver an unlimited spectrum of value-added services and applications.

Featuring a platform agnostic architecture, Technicolor Homeware is a fully portable solution that ensures the fastest time to market. Moreover, its modularity and enhanced life cycle management make it easy to add or remove components to or from a software release, while enabling second & third party development.

Leveraging open source, Technicolor Homeware embraces different execution environments and supports current and emerging trends, transforming the gateway into a full-blown app platform.

Features at a Glance

- Integrated VDSL2 modem (VDSL2 profile 35b)
- 1 GE WAN port
- AutoWAN sensing[™]
- 4 GE LAN ports
- Dual-band concurrent Wi-Fi interfaces

IEEE 802.11n 2.4 GHz (2x2) IEEE 802.11ac 5 GHz (4x4)

- 1 FXO analog port (optional)
- 2 FXS ports for phone or fax
- 2 superspeed USB 3.0 master ports
- Seamless media sharing (UPnP A/V[™] and DLNA[®])
- Future-proof full service platform
- Enabled to support Wi-Fi Doctor® (sold separately) and Wi-Fi Controller (sold separately)
- Extensive remote management
- Non-service-affecting platform software upgrades (dual bank memory)
- IPv4 & IPv6 enabled
- Designed according to the latest ECO standards















Wireless .11ac Smart Ultra-Broadband Gateway with Integrated Video Bridge

Best-In-Class Ultra Broadband

The accelerating growth of WAN and LAN traffic is pushing operators to look to ultra-high-speed network technologies to solve the bandwidth crunch. VDSL2 combined with Gigabit Ethernet enables extremely high bandwidth and guarantees superior quality in voice, data and video.

A dedicated Gigabit Ethernet WAN port and AutoWAN sensing make the DGA4130 the ideal service gateway for deployment in Fiber To The Home (FTTH) scenarios.

Some of the latest performance-enhancing technologies have been added on top, to get the utmost out of existing infrastructures:

- G.vector: effectively cancels the crosstalk noise inherently present in VDSL2 bands. With vectoring, every line in a binder can operate at peak performance, as if there were no other VDSL2 lines in that binder.
- G.inp ("Impulse Noise Protection"): makes sure that no errors occur on the DSL connection, even under extreme conditions, so that highquality video transmission is guaranteed at all times. It is based on the principle of retransmission.
- Profile 35b: allows for aggregate speeds of up to 350 Mbps over traditional copper telephone lines deployed from the cabinet, thus filling the gap between VDSL2 17a vectoring and G.fast.

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.

■ Voice over IP

The DGA4130 offers VoIP functions for residential and business users. POTS phone connectors are provided to accommodate regular phones and faxes. Once the gateway is registered with a VoIP service, regular phone calls can be conducted over the Internet with all the benefits of IP telephony.

On top of a wide range of advanced voice services like caller ID, CLIR, call waiting, call forwarding, three-way conference and message waiting notification, the DGA4130 is completely interoperable with the main IMS cores in the market.

Media Sharing

The DGA4130 acts as a fully compliant DLNA 1.5 Digital Media Server (DMS) and enables distribution of all content from any device to any device in the home. You can stream music, data, pictures and video from your gateway to devices connected to your wired or wireless home network.

In addition, the DGA4130 supports hot plugging of USB hard disk drives, allowing you to simply plug and play devices without the need to switch the gateway off first.

Easy to Use

Like all Technicolor modems and gateways, the DGA4130 is an easy to use, easy to install device.

For convenience of the end user, the easy-to-access LEDs provide a clear indication of start-up sequence, operational status, and connectivity status.

Multiple integrated web pages also allow direct access to the status and settings, including privacy and security information.

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Highest Security

The DGA4130 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 DGA4130 also supports powerful wireless security mechanisms, such as Wi-Fi Protected Access (WPA, WPA2) together with the secure and user friendly Wi-Fi Protected Setup (WPS) connection and configuration mechanism for connecting wireless clients.

In addition, the DGA4130 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.

Easy to Manage

The DGA4130 is completely designed according to the TR-069's TR-098 IGD data model through which the device can be configured remotely by the operator without interrupting the end user's experience.

In addition, the TR-181i2 Device:2 data model is made available to further increase the remote management capabilities towards life cycle management, diagnostics and application management.

■ IPv6 Enabled

With the approaching IPv4 address pool depletion, our products need to be ready for IPv6. Technicolor is a frontrunner in the introduction of IPv6 on its devices, with the DGA4130 being enabled for multiple IPv6 field scenarios. Internet Protocol version 6 is the next generation of Internet technologies aiming to effectively support the ever-expanding Internet usage and functionality, and also to address security concerns that exist in an IPv4 environment.

Technicolor aims to introduce IPv6 as smoothly as possible in customer networks. By providing in-depth knowledge of the networking stack, we guide our customers in their transition from IPv4 to IPv6.

ECO

Technicolor is committed to offer its customers sustainable products and implements a set of ECO features to reach the best possible environmental performance. In addition to carefully selected plastics and packaging to minimize the ecological footprint, the DGA4130 benefits from a unique combination of hardware and software features that reduce power consumption substantially.

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Technical Specifications

Hardware

■ Interfaces WAN 1 RJ-11 DSL line port

1 autosensing 10/100/1000 Base-T Ethernet WAN port

1 FXO port (optional)

■ Interfaces LAN 4-port autosensing 10/100/1000 Base-T Ethernet LAN switch

IEEE 802.11n 2.4 GHz Wi-Fi IEEE 802.11ac 5 GHz W-Fi 2 FXS POTS ports 2 USB 3.0 master ports

■ Buttons Info/ECO button

Wi-Fi on/off button WPS button Reset button Power button 8 status LEDS

Power input DC jack

■ Power supply 12 VDC external PSU

AC Voltage 100 - 240 VAC, 50 - 60 Hz (switched mode power supply)

Dimensions 241 x 37 x 192 mm (9.49 x 1.46 x 7.56 in.)

Operating temperature
 Operating humidity
 Operating humidity
 Operating humidity
 Operating humidity

xDSL modem

■ LEDs

■ Supports multi mode standards

■ ADSL compliancy ITU-T G.992.1 Annex A (G.dmt)

ITU-T G.992.2 Annex A (G.lite)

ITU-T G.994.1 (G.hs)

Rates up to 8 Mbps downstream and 1 Mbps upstream

■ ADSL2 compliancy ITU-T G.992.3 Annex A, L, M (G.dmt.bis)

ITU-T G.992.4 Annex A (G.lite.bis)

ITU-T G.998.4 (G.inp)

Rates up to 12 Mbps downstream and 1 Mbps upstream

■ ADSL2+ compliancy ITU-T G.992.5 Annex A, M

ITU-T G.998.4 (G.inp)

Rates up to 24 Mbps downstream and 3 Mbps upstream

■ VDSL2 compliancy ITU G.993.2

SOS SRA INM

ITU-T G.993.5 (G.vector) ITU-T G.998.4 (G.inp)

ITU-T G.993.2 Annex Q (VDSL2 profile 35b)

Rates up to 350 Mbps downstream and 100 Mbps upstream

■ Supports Dying Gasp

Wireless LAN

■ Full dual band concurrent Wi-Fi access points, Wi-Fi certified®

2.4 GHz (2x2) IEEE 802.11n AP 5 GHz (4x4) IEEE 802.11ac AP

with IEEE 802.11ac compliant transmit beamforming

■ Wi-Fi Protected Setup (WPS $^{\text{\tiny{M}}}$)

■ Wi-Fi security levels WPA2[™]-Enterprise / WPA[™]-Enterprise

WPA2[™]-Personal / WPA[™]-Personal

■ Wi-Fi Multimedia (WMM®) and WMM-Power Save

Up to 4 BSSIDs (virtual AP) support per radio interface

■ Wireless hotspot capabilities

2x2 MIMO 2.4 GHz Wi-Fi features

SGi STBC

20/40 MHz coexistence

■ 4x4 MU-MIMO 5 GHz Wi-Fi features

SGi STBC LDPC (FEC) 20/40/80 MHz mode

■ RX/TX switched diversity

Dynamic rate switching for optimal wireless performance

■ Manual/auto radio channel selection

Voice and telephony

■ Voice technologies Voice over IP (VoIP)

■ Voice signalling SIF

■ Voice codecs G.711, G.726, G.729

Wideband G.722.2 (optional)

T.38

■ Echo cancellation G.168 compliant

■ Comfort Noise Generator (CNG)

■ Voice Activity Detection (VAD)

Flexible telephone number per FXS handset, including common numbers

■ FXO (optional) Outgoing PSTN calls in case of power failure

 $\label{line:line:line:pst} \begin{tabular}{ll} Lifeline backup: manual and automatic PSTN/VoIP (optional) \\ Fully flexible dial plan for PSTN/VoIP outgoing calls (optional) \\ \end{tabular}$

Prefix for PSTN/VoIP switch (optional) Incoming call detection on PSTN (optional)

■ Supplementary and advanced services

Caller ID

Call waiting (on call basis)

Call forwarding (no answer/busy/unconditional)

Call transferring Call hold, call return

Calling Line Identification Presentation (CLIP)
Calling Line Identification Restriction (CLIR)
Calling Name Identification Presentation (CNIP)
Calling Name Identification Restriction (CNIR)

Fax transparency / V.92 transparency

3-way conference

Message Waiting Indicator (MWI) Call completion to busy subscriber

Forced FXO (optional) Abbreviated number

Anonymous Call Rejection (ACR)

Distinctive ringing DNS SRV

■ Interoperable with main market softswitches

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Technical Specifications

Management

■ Customizable user-friendly GUI via HTTP and HTTPS

■ 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-104 voice service provisioning and configuration 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)

■ Wireless hotspot (optional, on request)

Passpoint GRE tunneling EAP

Parental control
 URL- and (optional) content-based website filtering

Time-based access control

Printer sharing IPP

LP

■ Content sharing Server Message Block (SMB) Samba file server

 $UPnP \ A/V^{^{\text{\tiny{TM}}}} \ media \ server \ and \ control \ point$

DLNA® DMS

■ HDD file systems Metadata support FAT32, NTFS, ExFAT

EXT2, EXT3, EXT4

HFS+

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

■ Multicast to unicast translation on Wi-Fi interfaces

IPv6 networking

■ IPv4 / IPv6 dual IP stack

■ Supported models PPP(oE)(oA)

IPoE(oA)

Transitioning 6rd/6to4/6in4

DS-Lite

Stateful connection tracking / stateful inspection firewall

■ DHCPv6 Stateful/stateless DHCPv6 client

Stateless DHCPv6 server

Prefix Delegation

■ ICMPv6

Quality of Service

■ ATM QoS UBR, VBR-nrt, VBR-rt, CBR shaping, queuing and scheduling

CLP tagging

■ 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)

■ Multilevel access policy

lacksquare Security and service segregation per SSID

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Technical Specifications

ECO design

- ECO mode for more intelligent power saving
- Wi-Fi on/off button
- WMM-Power Save

Package contents

- DGA4130
- DSL cable (RJ-11)
- Ethernet cable (RJ-45)
- Power supply unit
- Quick Setup leaflet(s) (optional)
- Safety Instructions & Regulatory Information booklet
- Filter(s) or splitter(s) (optional)



Professional Services

To reinforce our extensive portfolio of digital home solutions, Technicolor has a dedicated Professional Services team to make sure that every deployment is a success, from initial provisioning and integration to operations, upgrades, ongoing support and beyond. Our wide array of services spans the entire customer project lifecycle, encompassing:

- Expert consulting
- Software customizations and customer change orders
- Qualified technical support and maintenance
- Seamless system integration

- Efficient repair, refurbishment and recycling
- Warranty extensions on all our products

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