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 C2100T 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.

Optimizing your WAN Bandwidth

In this bandwidth-hungry era of IPTV, real-time HD video streaming and VoIP - to name but a few - operators need to stay competitive and keep costs down, among others by taking advantage of existing facilities as much as possible.

Our C2100T innovation helps you get the most out of your network by letting you re-use existing copper wiring and giving higher coverage from one DSLAM. Moreover, it is a powerful future-proof triple-play service gateway allowing VDSL2 connectivity while providing Voice over IP functions for residential users.

Features at a Glance

- Integrated VDSL2 modem, supporting Bonded ADSL2+ Bonded VDSL2 (up to 17a profile)
- 1 GE WAN port
- AutoWAN sensing™
- 4 GE LAN ports
- Dual-band concurrent Wi-Fi interfaces:
  - IEEE 802.11n 2.4 GHz (2x2) with high power
  - IEEE 802.11ac 5 GHz (4x4)
- HomePNA™
- 2 FXS ports for phone or fax
- 1 USB 2.0 master port
- Non-service-affecting platform software upgrades (dual bank memory)
- Extensive remote management
- IPv4 & IPv6 enabled
- Designed according to the latest ECO standards
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 C2100T 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.

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
- Seamless system integration
- Warranty on all our products
- Qualified technical support and maintenance
- Efficient repair, refurbishment and recycling

Easy to Use

Like all Technicolor modems and gateways, the C2100T is an easy to use, easy to install gateway.

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.
MediaAccess C2100T for CenturyLink
Smart Ultra-Broadband Gateway with Integrated Video Bridge and HPNA

Technical Specifications

Hardware Specifications

■ Interfaces WAN
  2 RJ-11 DSL line ports
  1 Ethernet WAN 10/100/1000 Base-T port

■ Interfaces LAN
  4-port autosensing 10/100/1000 Base-T
  auto-MDI/MDI-X Ethernet LAN switch
  HPNA 3.1 interface
  2 FXS POTS ports
  1 USB 2.0 master port
  IEEE 802.11n 2.4 GHz on-board
  IEEE 802.11ac 5 GHz on-board

■ Interfaces other
  WPS button
  Reset button

■ Dimensions
  255 x 154 x 35 mm (10.0 x 6.0 x 1.3 in.)

■ AC Voltage
  100 - 240 VAC (switched mode power supply)

■ Temperature
  0° - 40° C  (32° - 104° F)

■ Humidity
  20% to 80%

Wireless Specifications

■ 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 2.4 GHz power
  High Power, up to 23 dBm (200 mW EIRP)

■ Wi-Fi Protected Setup (WPS™)

■ Wi-Fi security levels
  WPA2™-Enterprise / WPA™-Enterprise
  WPA2™-Personal / WPA™-Personal
  WEP™

■ Wi-Fi Multimedia (WMM®)

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

■ RX/TX switched diversity

■ 2x2 MIMO 2.4 GHz Wi-Fi features
  SGi
  STBC
  20/40 MHz coexistence

■ 4x4 MIMO 5 GHz Wi-Fi features
  SGi
  STBC
  LDPC (FEC)
  20/40/80 MHz mode

■ Dynamic rate switching for optimal wireless performance

■ Manual/auto radio channel selection

DSL Modem Specifications

■ Supports multi mode standards

■ ADSL compliance
  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)
  Maximum rate: 8 Mbps for downstream and 1 Mbps for upstream

■ ADSL2 compliance
  ITU-T G.992.3 Annex A (G.dmt.bis)
  ITU-T G.992.4 Annex A (G.lite.bis)
  ITU-T G.994.4 (G.mp)
  Maximum rate: 12 Mbps for downstream and 1 Mbps for upstream

■ ADSL2+ compliance
  ITU-T G.992.5 Annex A
  ITU-T G.998.4 (G.mp)
  ITU-T G.998.1 ATM Bonding
  ITU-T G.998.2 Ethernet Bonding
  Maximum rate: 24 Mbps for downstream and 1.5 Mbps for upstream (per DSL line)

■ VDSL2 compliance
  ITU-G.992.2
  S0S
  SRA
  INM
  Up to 17a MHz profiles (on bonded interface)
  ITU-T G.993.5 (G.vector)
  ITU-T G.998.4 (G.mp)
  ITU-T G.998.1 ATM Bonding
  ITU-T G.998.2 Ethernet Bonding

Security

■ Stateful Packet Inspection Firewall (SPIF)
■ Customizable firewall security levels
■ Intrusion detection and prevention
■ DeMilitarized Zone (DMZ)
■ Multilevel access policy
■ Security and service segregation per SSID

Networking

■ Symmetrical NAT with application helpers (ALGs)
■ Game and application sharing NAT port maps
■ DHCP conditional serving & relay
■ DNS server & relay
■ IGMPv4 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
  Relay
  Prefix Delegation
■ ICMPv6

Management

■ User-friendly GUI via HTTP and HTTPS
  (portal, management, diagnostics, applications, ...)
■ Web services API for remote access
■ Web-browsing intercept (install/diagnostics/captive portal)
■ AutoWAN sensing**: automatic selection and configuration of WAN interfaces
■ TR-069 CPE WAN Management Protocol
  TR-098 Internet Gateway Device Management
  TR-104 voice service provisioning and configuration
  TR-111 home network device management
  TR-145 network throughput performance tests and statistical monitoring
■ Zero-touch autoprovisioning

IPv4 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
  Relay
  Prefix Delegation
■ ICMPv6
## Technical Specifications

### Quality of Service
- **ATM QoS**: UBR, VBR-nrt, VBR-rt, CBR shaping, queuing and scheduling
- **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, Switch port queuing and scheduling
- **Wireless QoS**: WMM (BE, BK, VI, VO access categories), queuing and scheduling

### HomePNA Specifications
- **HomePNA™ 3.1 Certified**

### Voice over IP Specifications
- **Voice technologies**: Voice over IP (VoIP)
- **Voice signalling**: SIP
- **Voice codecs**: G.711, Wideband, G.722.2, T.38
- **Echo cancellation**: G.168 compliant
- **Comfort Noise Generator (CNG)**
- **Voice Activity Detection (VAD)**
- **Flexible telephone number per FXS handset, including common numbers**
- **Interoperable with main market softswitches**

### Content of the Box
- MediaAccess C2100T for CenturyLink
- DSL cable(s) (RU-11)
- Ethernet cable (RJ-45)
- Power supply unit
- Quick Setup leaflet(s) (optional)
- Safety Instructions & Regulatory Information booklet (optional)
- Filter(s) or splitter(s) (optional)