C1100T for CenturyLink

Wireless
Smart Ultra-Broadband Gateway

| TELECOM | DATA | VIDEO |

■ 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.

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 high-quality video transmission is guaranteed at all times. It is based on the principle of retransmission.

■ Easy to Use

Like all Technicolor modems and gateways, the C1100T 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.

■ Easy to Manage

The C1100T is compliant with the TR-069 data model through which the device can be configured remotely by the operator without interrupting the end user's experience.

■ 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 C1100T 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.

Features at a Glance

■ Integrated VDSL2 modem
■ 1 GE WAN port
■ AutoWAN sensing™
■ 4 GE LAN ports
■ Wi-Fi IEEE 802.11n 2.4 GHz (2x2) with high power
■ 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

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Technical Specifications

Hardware Specifications

- Interfaces WAN   1 RJ-11 DSL line port
  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
  1 USB 2.0 master port
  IEEE 802.11n 2.4 GHz on-board
- Interfaces other   WPS button
  Reset button
- AC Voltage   100 - 240 VAC (switched mode power supply)
- Temperature   0° - 40° C (32° - 104° F)
- Humidity   20% to 80%

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.998.4 (G.inp)
  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.inp)
  Maximum rate: 24 Mbps for downstream
  and 3 Mbps for upstream
- VDSL2 compliance   ITU G.993.2
              SOS
              SRA
              INM
  Up to 17a MHz profiles
  ITU-T G.993.5 (G.vector)
  ITU-T G.998.4 (G.inp)

Wireless Specifications

- Wi-Fi access point, Wi-Fi certified®
              2.4 GHz (2x2) IEEE 802.11n AP
- 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
- Wi-Fi Multimedia (WMM®)
- Up to 4 BSSIDs (virtual AP) support
- RX/TX switched diversity
- 2x2 MIMO 2.4 GHz Wi-Fi features
              SGi
              STBC
              20 MHz mode
- Dynamic rate switching for optimal wireless performance
- Manual/auto radio channel selection

Management

- 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
              TR-098 Internet Gateway Device Management
              TR-111 home network device management
              TR-143 network throughput performance tests
              and statistical monitoring
- Zero-touch autoprovisioning

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

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Technical Specifications

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)
- 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

Quality of Service
- ATM QoS — UBR, VBR-nrt, VBR-rt, CBR shaping,
  queuing and scheduling
  CLP tagging
- IP QoS — Flexible classification
  Dynamic link fragmentation
- Ethernet QoS — Priority or S-VLAN tagging
  Switch port queuing and scheduling
- Wireless QoS — WMM (BE, BK, VI, VO access categories)
  queuing and scheduling

Content of the Box
- C1100T for CenturyLink
- DSL cable(s) (RJ-11)
- Ethernet cable (RJ-45)
- Power supply unit
- Quick Setup leaflet(s) (optional)
- Safety Instructions & Regulatory Information booklet (optional)
- End User License Agreement (EULA) leaflet (optional)
- 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
- Qualified technical support and maintenance
- Seamless system integration
- Efficient repair, refurbishment and recycling
- Warranty on all our products

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