NETGEAR®

DOCSIS 3.0 AC1600 Voice and Data Cable Gateway, C6250EMR

Data Sheet - Preliminary*

C6250EMR

AC1600 WiFi speeds plus Beamforming+ for an optimized user experience with best-in-class speed, ease of use and reliability

The NETGEAR DOCSIS® 3.0 AC1600 Voice and Data Cable Gateway (C6250EMR), offers service providers a powerful user experience for their end-users.

The NETGEAR C6250EMR raises the bar with its incredibly fast WiFi giving service provider's subscribers the power to connect to all of their smartphones, tablets and mobile devices faster than ever before. Enhancing end-user's ultra-fast WiFi connection is the addition of explicit and implicit Beamforming+ creating better range and a stronger connection that is ideal for large homes.

Built-in NETGEAR genie® offers end-users complete access and management of their home network, resulting in fewer technical support calls. NETGEAR Enhanced Support Tools offer easy troubleshooting for cable operators providing unprecedented visibility and diagnostic tools to ensure carrier-grade voice services.

ReadyShare USB   Beamforming+   WPS   DLNA
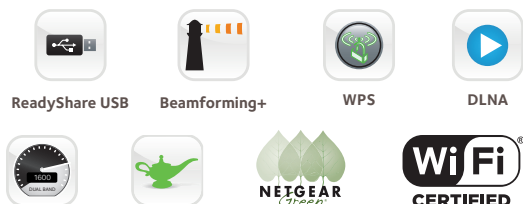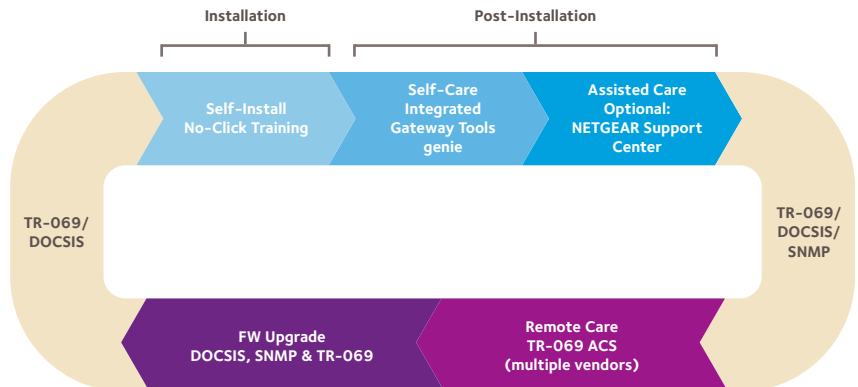
The NETGEAR Difference

- 11ac ultra-fast cable Internet speeds with NETGEAR Beamforming+ for expanded coverage and a better WiFi connection
- NETGEAR genie® application for simplified home network management
- Enhanced support tools with TR-069, SNMP and genie app
- Hotspot/WiFi offload support using GRE soft tunnel
- ReadyShare USB hard drive access through local network
- Live parental controls

Benefits

- 11ac AC1600 WiFi – 300+1300 Mbps[†] speeds
- Up to 800 Mbps DOCSIS download speed with 16 bonded channels
- Explicit and implicit Beamforming+ for improved WiFi range and performance
- NETGEAR patent-pending antenna design antennas to extend WiFi coverage
- Upstream and downstream advanced Quality of Service (QoS) for best gaming and video streaming experience
- Integrated 2-port Gigabit Ethernet switch
- Next generation of HD voice with PacketCable 2.0

Ease of Use

- Installation and management is simple and easy with Push 'N' Connect and NETGEAR genie app
- NETGEAR genie has a host a features to give end-users ultimate access and control of their network:
  – Home network management
  – MyMedia: Find and play media files from network
  – Turbo Transfer: Share files within home network between PC, MAC or Android
  – Guest Network and EZ Mobile Connect: Separate and secure access for guests; scan QR code to connect guests to the network

Installation	Post-Installation

TR-069/ DOCSIS	Self-Install No-Click Training	Self-Care Integrated Gateway Tools genie	Assisted Care Optional: NETGEAR Support Center	TR-069/ DOCSIS/ SNMP
	FW Upgrade DOCSIS, SNMP & TR-069		Remote Care TR-069 ACS (multiple vendors)	

NETGEAR®

DOCSIS 3.0 AC1600 Voice and Data Cable Gateway, C6250EMR

Technical Specifications

System Requirements

- Cable broadband Internet service
- Microsoft® Windows® 7, 8, Vista®, XP, 2000, Mac OS®, or other operating systems running a TCP/IP network
- Microsoft® Internet Explorer® 5.0, Firefox® 2.0, Safari® 1.4, or Google Chrome™ 11.0 browsers or higher
- Use laptop with 3x3 450 Mbps adapter like Centrino® 6300/5300 for maximum performance
- Use with an 802.11ac adapter like NETGEAR A6200 for maximum performance

Physical Interfaces

- 1: USB 2.0 port
- 1: Coaxial port for cable Internet
- 1: Voice ports
- 2: Gigabit Ethernet ports with auto-sensing technology

Security

- WPA/WPA2 – PSK
- SPI and NAT firewall
- Denial-of-Service (DoS) attack prevention
- WPS

Power

- 12V/2.5A

Environmental Specifications

- Operating Temperature: 5–40 ºC
- RoHS/REACH/WEEE Compliant

Warranty

- Standard 2-year

Network Management

- Remote GUI Management
- Genie® GUI Management
- uPnP
- DLNA
- Port forwarding/Port Triggering
- DHCP Server

LEDs

- Power
- DS/US
- ONLINE
- Telephony
- 2.4GHz
- 5GHz
- WPS
- WiFi

Ease-of-use

- NETGEAR genie for PCs, iPad, tablets, MacBook Air, and smartphones
- Push 'N' Connect using WiFi Protected Setup® (WPS)1

Advanced Features

- 16x4 3.0 Modem
- Download and upload speeds up to 800 Mbps
- IPv6
- Simultaneous dual-band WiFi
- WiFi Transmitters/Receivers (Tx/Rx)– 2x2 (2.4GHz) + 3x3 (5GHz)
- Memory – 128 MB flash and 256 MB RAM
- Advanced QoS
- Two Gigabit Ethernet ports

NETGEAR Green Features

- Power On/Off button
- Wireless On/Off button
- 80% recycled packaging
- CEC (California Efficiency)
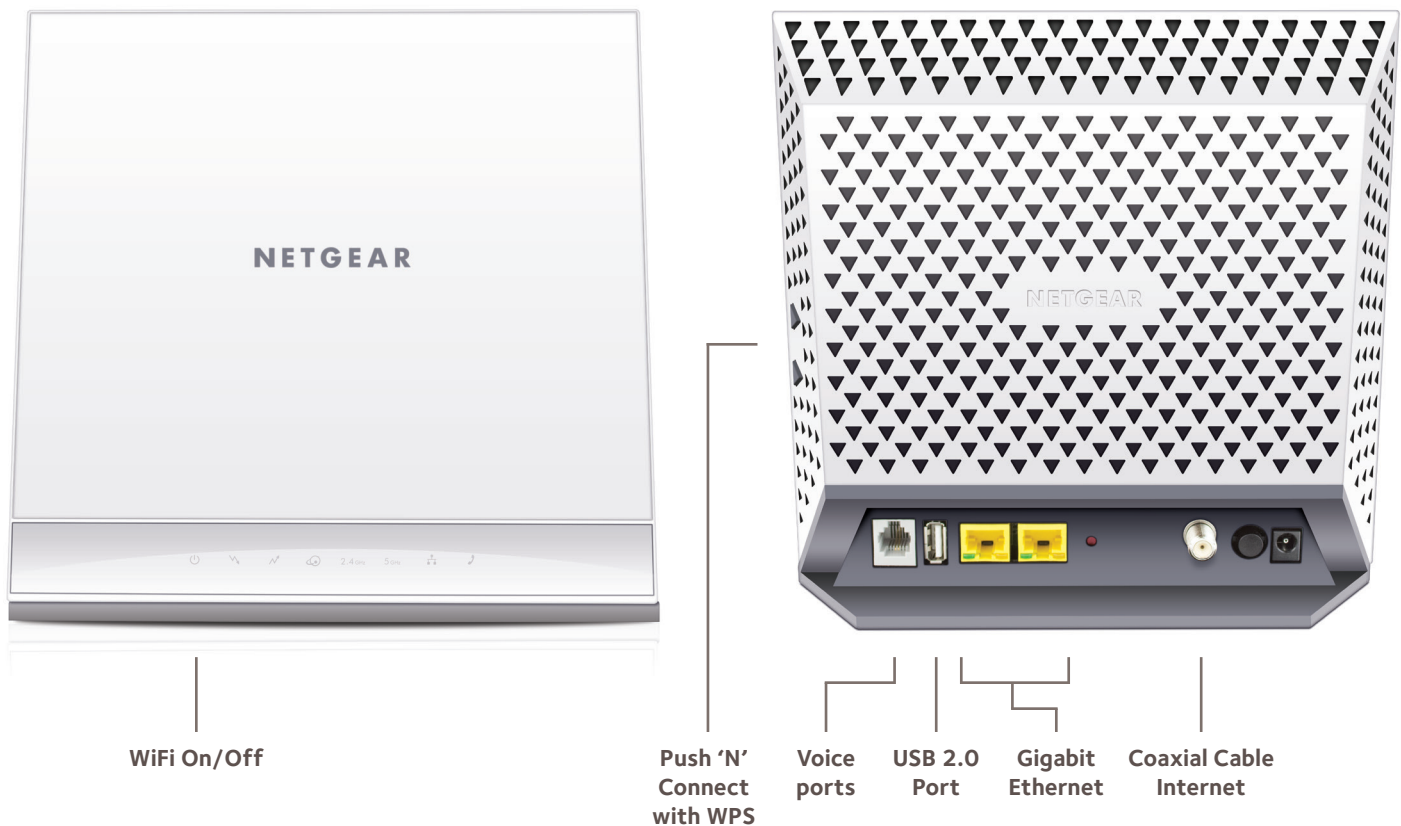- RoHS
- WEEE
- REACH

Package Contents

- C6250EMR cable gateway
- Ethernet cable
- Quick install guide
- Power adapter

NETGEAR®

DOCSIS 3.0 AC1600 Voice and Data Cable Gateway, C6250EMR

C6250EMR

Connection Diagram

WiFi On/Off

Push 'N' Connect with WPS

Voice ports

USB 2.0 Port

Gigabit Ethernet

Coaxial Cable Internet

* This is a preliminary product datasheet; actual features, functionality and capabilities may change in final product.

† Maximum wireless signal rate derived from IEEE standard 802.11 specifications. Actual data throughput and wireless coverage will vary. Network conditions and environmental factors, including volume of network trac, building materials and construction, and network overhead, lower actual data throughput rate and wireless coverage. NETGEAR makes no express or implied representations or warranties about this product's compatibility with any future standards. 802.11ac 1300 Mbps is approximately 3x faster than 802.11n 450 Mbps. 2.4GHz Performance Mode requires 256 QAM support on WiFi client. Up to 1300 Mbps wireless speeds achieved when connecting to other 802.11ac 1300 Mbps devices.

D–C6250EMR–1