Residential Gateway

MOTOROLA
Next Level Communications

Motorola's Residential Gateway 2200 (RG2200) is among the world's most advanced set-top box for supporting cable and satellite competitive communications and entertainment services over the telecommunications infrastructure. A key component of the Motorola Multi-Service Access Platform, the RG2200 is the single set-top interface to the complete end-to-end solution for bundled services – voice, data, broadcast, and on-demand video services.

The RG2200 family of products provides customers with a "whole home" solution. Operating as a single access device to the home, the RG2200 can deliver two or three concurrent streams of DVD-quality video, providing the functionality of multiple high-quality set-top boxes. Additionally, it can be used to offer compelling and lucrative capabilities such as high speed Internet access, on-screen caller ID, and interactive features (e.g., Pay-Per-View (PPV), Video-On-Demand (VOD)), and interactive TV applications.

Each member of the RG2200 family – the RG2200A (ADSL+), RG2200V (VDSL 998), RG2200C (VDSL, future), RG2200B (ADSL2+, future) and the RG22200E (Ethernet, future) supports a different transport technology and provides common user interfaces, design, subscriber provisioning, and management features. Subscribers will enjoy the same user experience and cable providers will be familiar with installation, provisioning, and support issues.

Innovative "whole home" solution for delivering broadcast and on-demand video, data and interactive TV services to the home.

Using a separate remote control, each TV viewing environment may be fully customized with its own channel line up, channel changing preferences, parental locks and voice caller-ID/message waiting characteristics.

HIGHLIGHTS:

- Simultaneously decodes up to three concurrent streams of MPEG-2 digital video
- Supports MPEG-2 and Dolby® Digital audio streams
- Open architecture supports 3rd party Interactive Program Guide, PPV, VOD and IP-based interactive TV solutions
- High-resolution on-screen graphics
- Inherent security with conditional access validation on a per channel change basis
- Can use CAT-5 Ethernet cabling or existing in-home coaxial cable for quick and easy installations

COMMON FEATURES

- MPEG-1 and MPEG-2 main level profile video
- ATSC standard Dolby Digital (AC-3) audio
- MPEG-2, layer 1 and 2 audio
- High-resolution, bitmapped graphics display (16 bit)
- Wide screen (16 x 9) video support
- Macrovision copy protection
- Vertical Blanking Interval (VBI) features (Closed captioning and teletext)
- Displays Emergency Alert Service overlay
- Secondary Audio Program
- On-Screen caller ID
- Up to three IR and UHF remotes per Residential Gateway
- Support for tethered IR blaster
- 10/100 BaseT Ethernet data port
- On-screen network and CPE diagnostic tools
- Front panel diagnostic indicators
- Downloads software updates automatically

OPTIONAL FEATURES

- DVB common de-scrambling and smart card

STANDARD INTERFACES

- Network In: RJ-45 jack
- Network In/TV Out: F connector (female)
- Video: RCA phono jack (yellow)
- S-Video: 4-position circular mini-DIN
- Audio-L/R: RCA phono jacks
- Dolby Digital (AC-3): RCA phono jack
- AC In: 2-prong, non-polarized AC inlet
- Ethernet (10/100BaseT) RJ-45 plug in option

RG2200A FEATURE SET

- ADSL+ compatible
- Reach of up to 9 kft (2750 meters) on 24 AWG (2 video streams) 12kft (3650 meters) (1 video stream)
- Downstream rate up to 10.5 Mbps
- Upstream rate up to 1 Mbps
- Complies with T1 .413 and ITU-T G.992
- Two concurrent MPEG-2 digital quality video streams
- 16 bit graphics
- 32 Mb applications memory per video decoder

RG2200V FEATURE SET

- 998 Plan VDSL compatible
- Reach of up to 4200 ft. (1280 meters) on 24 AWG (3 video streams) 5500 ft.(1675 meters) (2 video streams)
- Downstream rate up to 26 Mbps
- Upstream rate up to 7.7 Mbps
- Complies with T1 .424 and ITU-T G.993
- Three concurrent MPEG-2 digital quality video streams
- 16 bit graphics
- 32 Mb applications memory per video decoder

RG2C FEATURE SET

- VDSL band plan compatible
- Reach of up to 4500 ft. (1371 meters) on 24 AWG (3 video streams) 5500 ft.(1675 meters) (2 video streams)
- Downstream rate up to 26 Mbps
- Upstream rate up to 7.7 Mbps
- Three concurrent MPEG-2 digital quality video streams
- 16 bit graphics
- 32 Mb applications memory per video decoder

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