Based on the HomePlug® AV v1.1 specification, the fourth-generation CG2210 Chipset is the ideal solution for home AV networking - video, audio, data, and voice - over existing AC powerlines.

Featuring faster operation over surge protectors, low latency, low power, and guaranteed QoS, the CG2210 Chipset provides efficient utilization of network resources for multiple simultaneous streams of real-time high-definition video, audio, voice, and data in the presence of best effort data transfers.

The CG2210 Chipset is comprised of two devices

- Digital MACPHY IC (CG2211)
- Analog Front-End IC (CG2212)

and offers a variety of interface options which make this chipset an ideal home AV networking solution.

Powering the new digital home

Target Markets

- Home AV networks
- Set-top boxes and CE products
- Residential gateways
- Optical network terminals (ONTs)
- Customer premises equipment (CPE)
- Ethernet to HomePlug® AV v1.1 bridges

Benefits

- Every in-home AC power outlet can be a home network connection
- Payload rates up to 110 Mbps
- Quality of Service (QoS) configuration allows data stream prioritization for specific applications
- Device QoS balances resource usage when services contend for the same resources within a device
- Decreased energy costs through reduction of power consumption when system is inactive
- Remote monitoring and management tools reduce maintenance costs
- LED indicators display system status and enable simple installation
- Optimized software API, enabling quick customization and product differentiation
- Secure home communications at the touch of a button
- ClearPath™ technology enables usage of powerline as a multiple input multiple output (MIMO) channel, thus extending coverage, improving the network's immunity to noise and delivering a higher throughput
- Supports TR069
- Supports power-save mode; compliant with EuP 2013
CG2210 Chipset
HomePlug® AV Modem with ClearPath™
Technology for Home AV Networks

Features

- PHY layer rate up to 200 Mbps
- Implements OFDM, channel adaptation, FEC, noise mitigation schemes
- Supports 1024/256/64/16/8-QAM, QPSK, BPSK, ROBO modulation schemes
- Supports IP multicast for audio and video traffic
- IPv4, IPv6 with IGMP v1, v2, v3 snooping support
- 128-bit AES encryption with key management
- Supports pushbutton-based privacy
- Excellent throughput with a variety of packet sizes in a wide range of environments
- Device Level QoS with advanced hardware mechanism for managing traffic priority
- Environmentally-friendly technology integrates innovative features for reduced energy consumption
- Up to 90% power reduction in power-save mode
- MII MAC and PHY host interfaces
- Signal quality LED indication
- Well-documented Application Programming Interface (API) for easy product adaptation
- Support for customer specific features
- Remote management and diagnostics for faster installation
- Coexistence with neighboring HomePlug® networks

International Sales Distributors

INDIA
Spectra Innovations
#30, Unit 30/4, St. John’s Road
Bengaluru-560042, India
Tel: +91.80.2558.8323
Fax: +91.80.2558.1427
www.spectraind.com

KOREA
Uniquest Corp.
Uniquest Building
271-2 Seohyeon-dong,
Bundang-gu, Sungnam-si,
Gyeonggi-do, Korea, 463-824
Tel: +82.31.708.9988
Fax: +82.31.708.6598
www.uniquest.co.kr

INDONESIA, MALAYSIA, SINGAPORE
Convergent Systems (S) Pte. Ltd.
60 Albert Street
#11-01 Albert Complex
Singapore 189969
Tel: +65.6337.0177
Fax: +65.6336.2247
www.convergent.com.sg

TAIWAN
Tradewell Company Ltd.
Far East World Center,
C Tower
8F-6, No. 79, Sec 1
Hsin Tai Wu Road
Hsichih, Taipei Hsien, Taiwan
Tel: +886.2.2708.2066
Fax: +886.2.2653.2278

JAPAN
MACNICA, Inc.
Brilliant Technologies Company
Macnica Bldg. No 1
1-6-3 Shin-Yokohama
Kouhouku-ku, Yokohama,
222-8561 Japan
Tel: +81.45.470.9831
Fax: +81.45.470.9832
www.btc.macnica.co.jp

U.S. Sales Offices
WESTERN U.S.
HEADQUARTERS
1778 McCarthy Blvd.
Milpitas, CA 95035
Main: +1.408.262.9003
Tel: +1.408.957.9871
Fax: +1.408.957.9740
www.sigmadesigns.com
sales@sdesigns.com

EASTERN U.S.
Sigma Designs, Inc.
Tel: +1.585.421.3478

International Sales Offices
AUSTRALIA, INDIA, INDONESIA, KOREA, MALAYSIA, SINGAPORE
Sigma Designs Technology Singapore
8 Kallang Sector
Level 10, East Wing
Singapore 349282
Singapore
Tel: +65.6749.1877
Fax: +65.6749.1844

CHINA
Sigma Designs China
Unit 7C1, TianXiang Bldg.
Tian’An Cyber Zone,
Futian District,
Shenzhen, PRC
Postcode 518048
Tel: +86.755.83435669
Fax: +86.755.83435629

EUROPE
Sigma Designs Denmark ApS
Enderupvej 26 A, 1.,
2100 Copenhagen O
Denmark
Tel: +45.7020.9940
Fax: +45.7020.9950

HONG KONG
Sigma Designs (Asia) Ltd.
Unit 4001B, Tower 2,
Metroplaza
223 Hing Fong Road
Kwai Fong, N.T., Hong Kong
Tel: +852.3401.7388
Fax: +852.2610.2177

ISRAEL, EASTERN EUROPE
Sigma Designs Israel
38 Habarzel St.
69710 Tel Aviv
Israel
Tel: +972.3.769.6222
Fax: +972.3.644.6253

JAPAN
MACNICA, Inc.
Brilliant Technologies Company
Macnica Bldg. No 1
1-6-3 Shin-Yokohama
Kouhouku-ku, Yokohama,
222-8561 Japan
Tel: +81.45.470.9831
Fax: +81.45.470.9832
www.btc.macnica.co.jp

International Sales Distributors

INdIA
Spectra Innovations
#30, Unit 30/4,
St. John’s Road
Bengaluru-560042, India
Tel: +91.80.2558.8323
Fax: +91.80.2558.1427
www.spectraind.com

KOREA
Uniquest Corp.
Uniquest Building
271-2 Seohyeon-dong,
Bundang-gu, Sungnam-si,
Gyeonggi-do, Korea, 463-824
Tel: +82.31.708.9988
Fax: +82.31.708.6598
www.uniquest.co.kr

INDONESIA, MALAYSIA, SINGAPORE
Convergent Systems (S) Pte. Ltd.
60 Albert Street
#11-01 Albert Complex
Singapore 189969
Tel: +65.6337.0177
Fax: +65.6336.2247
www.convergent.com.sg

TAIWAN
Tradewell Company Ltd.
Far East World Center,
C Tower
8F-6, No. 79, Sec 1
Hsin Tai Wu Road
Hsichih, Taipei Hsien, Taiwan
Tel: +886.2.2708.2066
Fax: +886.2.2653.2278

JAPAN
MACNICA, Inc.
Brilliant Technologies Company
Macnica Bldg. No 1
1-6-3 Shin-Yokohama
Kouhouku-ku, Yokohama,
222-8561 Japan
Tel: +81.45.470.9831
Fax: +81.45.470.9832
www.btc.macnica.co.jp

International Sales Distributors

INdIA
Spectra Innovations
#30, Unit 30/4,
St. John’s Road
Bengaluru-560042, India
Tel: +91.80.2558.8323
Fax: +91.80.2558.1427
www.spectraind.com

KOREA
Uniquest Corp.
Uniquest Building
271-2 Seohyeon-dong,
Bundang-gu, Sungnam-si,
Gyeonggi-do, Korea, 463-824
Tel: +82.31.708.9988
Fax: +82.31.708.6598
www.uniquest.co.kr

INDONESIA, MALAYSIA, SINGAPORE
Convergent Systems (S) Pte. Ltd.
60 Albert Street
#11-01 Albert Complex
Singapore 189969
Tel: +65.6337.0177
Fax: +65.6336.2247
www.convergent.com.sg

TAIWAN
Tradewell Company Ltd.
Far East World Center,
C Tower
8F-6, No. 79, Sec 1
Hsin Tai Wu Road
Hsichih, Taipei Hsien, Taiwan
Tel: +886.2.2708.2066
Fax: +886.2.2653.2278

JAPAN
MACNICA, Inc.
Brilliant Technologies Company
Macnica Bldg. No 1
1-6-3 Shin-Yokohama
Kouhouku-ku, Yokohama,
222-8561 Japan
Tel: +81.45.470.9831
Fax: +81.45.470.9832
www.btc.macnica.co.jp

International Sales Distributors

INdIA
Spectra Innovations
#30, Unit 30/4,
St. John’s Road
Bengaluru-560042, India
Tel: +91.80.2558.8323
Fax: +91.80.2558.1427
www.spectraind.com

KOREA
Uniquest Corp.
Uniquest Building
271-2 Seohyeon-dong,
Bundang-gu, Sungnam-si,
Gyeonggi-do, Korea, 463-824
Tel: +82.31.708.9988
Fax: +82.31.708.6598
www.uniquest.co.kr

INDONESIA, MALAYSIA, SINGAPORE
Convergent Systems (S) Pte. Ltd.
60 Albert Street
#11-01 Albert Complex
Singapore 189969
Tel: +65.6337.0177
Fax: +65.6336.2247
www.convergent.com.sg

TAIWAN
Tradewell Company Ltd.
Far East World Center,
C Tower
8F-6, No. 79, Sec 1
Hsin Tai Wu Road
Hsichih, Taipei Hsien, Taiwan
Tel: +886.2.2708.2066
Fax: +886.2.2653.2278

JAPAN
MACNICA, Inc.
Brilliant Technologies Company
Macnica Bldg. No 1
1-6-3 Shin-Yokohama
Kouhouku-ku, Yokohama,
222-8561 Japan
Tel: +81.45.470.9831
Fax: +81.45.470.9832
www.btc.macnica.co.jp