

GV7013-DP

Greenvity's GV7013-DP is a HomePlug Green PHY Powerline Communications (PLC) Development Platform that features automatic association, smart control, and intelligent monitoring.

PRODUCT DESCRIPTION

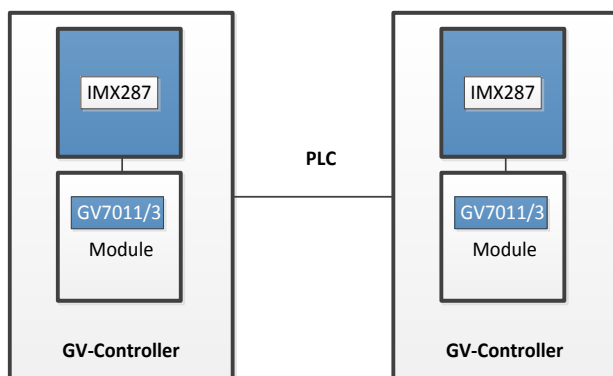
The GV7013-DP is a Development Platform based on the HomePlug Green PHY (HPGP) powerline communications (PLC) standard that delivers half-duplex, asynchronous data communication over (50/60 Hz) AC and DC power lines at PHY data rates up to 9.8 Mbps. The GV7013-DP is powered by Greenvity GV7013 Hybrii-Mini SoC that integrates the HomePlug Green PHY PLC to form the back-bone communication for LED lighting network throughout a home or building. The development platform features remote and automatic control, centralization and monitoring and consists of a GV-Controller (IoT Hub) and GV7013-MOD.

Greenvity's Smart LED Lighting Software Suite is included in the development platform with mobile apps (iOS and Android) for remote control and monitoring.

GV7013-DP FEATURES

- Utilizes Greenvity's GV-Controller and GV7013-MOD
- Automatic association & installation of up to 255 slaves
- Transmits/receives commands through powerline enabled by GV7013 SoC
- GV-Controller is connected to router/access point via Ethernet for indoor/outdoor remote access
- Controlled and monitored by smart phones or tablets
- Gateway SW allows for XML or C API based interfaces

GV7013-DP APPLICATION DIAGRAM



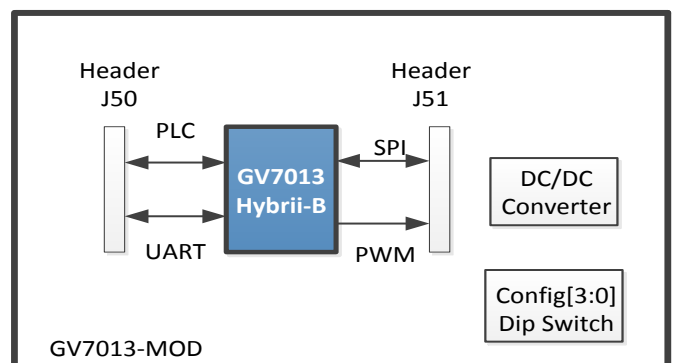
GV-CONTROLLER FEATURES

- Provision to support either the GV7011 ZigBee/PLC or GV7013 PLC SoC module
- ARM9 processor featuring 32KB SRAM data memory and an external 64MB SDRAM for program memory
- Supports Linux OS with IPv4, IPv6 and TCP
- RJ45 Ethernet connector
- 4-Port USB Hub
- SPI connector for interfacing with Hybrii SoC
- SD micro-SD for Linux Kernel and Linux filing
- GPRS and Bluetooth Low Energy (BLE) as options

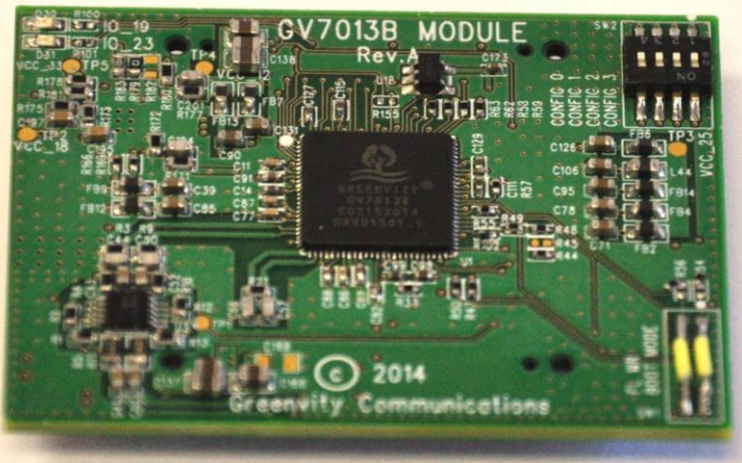


GV7013B-MOD FEATURES

- GV7013B Hybrii-Mini HomePlug PLC SoC
- Operates with the GV-Controller (IMX287)
- SPI and UART communications
- Small size



GV7013-MOD



TARGET APPLICATIONS

- LED Lighting Control for commercial buildings, streets, parking lots and factories
- Controlled LED lighting, signage and display
- Home/Building Energy Management System

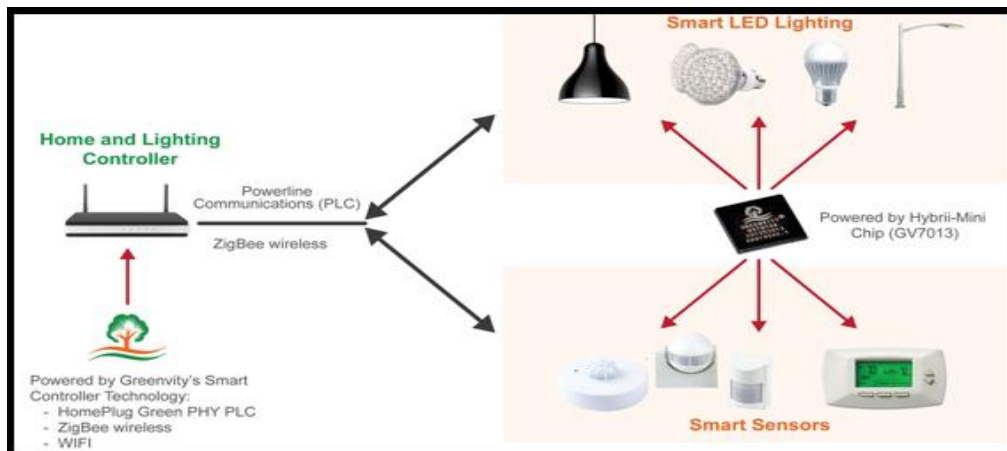
ORDERING CODE

Ordering Code	Description
GV7013-DP	Development platform based on the GV-Controller (IoT Hub) and GV7011-MOD or GV7013-MOD
GV-Controller (IoT Hub)	Home Gateway and LED Lighting Controller
GV-LED	Smart LED driver module
GV-Sensor	All-in-One Sensor module
GV7011/3	Hybrii-XL chip (HPGP & ZigBee) or Hybrii-Mini chip (HPGP)

GV7013-DP KIT CONTENTS

GV7013-DP development kit contains the follow.

- (1)-GV-Controller
- (1)-GV7013-MOD
- GV-Sensor (orderable option)
- +5V Power supply
- LED Strips
- USB to RS232 Converter
- App software for Apple's iPhone and iPad
- User's Guide
- GV7011/3 Datasheet



Smart LED Lighting with Sensor Networking

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