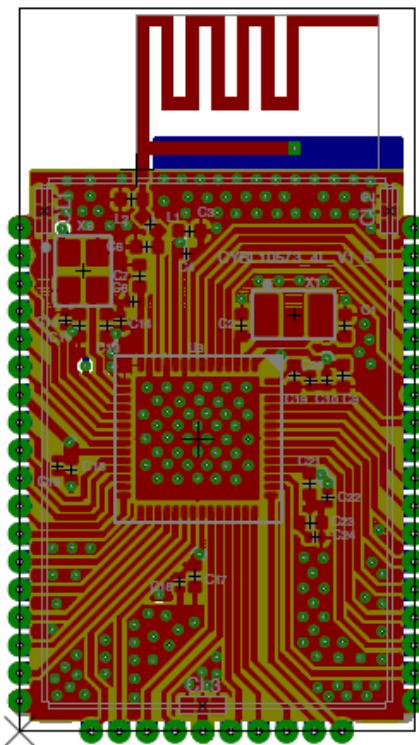


## Glen Dimplex BLE Module (EP4106)



This module designed as a BLE module based on Cypress SOC chip.

### Features:

Fully compliant to Bluetooth Smart (4.x Low Energy single mode) specifications

2.4-GHz BLE radio and baseband with integrated balun

ARM Cortex-M0 CPU Core

Ultra-low power Deep-Sleep mode with watch crystal oscillator (WCO) on

High efficiency on-module printed PCB RF antenna

### Application:

- Internet of Things (IoT) Device

- Thermostat
- Wireless Keyboard and Mouse
- GamePad and Game Controller
- HID applications
- Mobile phone and tablet accessory
- Medical and healthcare monitor
- Voice Remote Control

Pin Description:

PIN	PIN name	Description
Pin1	GND	Ground
Pin2	VDDR	1.9-V to 5.5-V radio supply
Pin3	P0.0	Port 0 Pin 0, analog/digital/lcd/csd
Pin4	P0.1	Port 0 Pin 1, analog/digital/lcd/csd
Pin5	P0.2	Port 0 Pin 2, analog/digital/lcd/csd
Pin6	P0.3	Port 0 Pin 3, analog/digital/lcd/csd
Pin7	VDDD	1.71-V to 5.5-V digital supply
Pin8	P0.4	Port 0 Pin 4, analog/digital/lcd/csd
Pin9	P0.5	Port 0 Pin 5, analog/digital/lcd/csd
Pin10	P0.6	Port 0 Pin 6, analog/digital/lcd/csd
Pin11	P0.7	Port 0 Pin 7, analog/digital/lcd/csd
Pin12	P1.0	Port 1 Pin 0, analog/digital/lcd/csd
Pin13	P1.1	Port 1 Pin 1, analog/digital/lcd/csd
Pin14	P1.2	Port 1 Pin 2, analog/digital/lcd/csd
Pin15	P1.3	Port 1 Pin 3, analog/digital/lcd/csd
Pin16	P1.4	Port 1 Pin 4, analog/digital/lcd/csd
Pin17	P1.5	Port 1 Pin 5, analog/digital/lcd/csd
Pin18	GND	Ground
Pin19	P1.6	Port 1 Pin 6, analog/digital/lcd/csd
Pin20	P1.7	Port 1 Pin 7, analog/digital/lcd/csd
Pin21	P2.0	Port 2 Pin 0, analog/digital/lcd/csd
Pin22	P2.1	Port 2 Pin 1, analog/digital/lcd/csd
Pin23	GND	Ground
Pin24	P2.2	Port 2 Pin 2, analog/digital/lcd/csd/WAKEUP
Pin25	P2.3	Port 2 Pin 3, analog/digital/lcd/csd
Pin26	P2.4	Port 2 Pin 4, analog/digital/lcd/csd
Pin27	P2.5	Port 2 Pin 5, analog/digital/lcd/csd
Pin28	P2.6	Port 2 Pin 6, analog/digital/lcd/csd
Pin29	GND	Ground
Pin30	P2.7	Port 2 Pin 7, analog/digital/lcd/csd
Pin31	P3.0	Port 3 Pin 0, analog/digital/lcd/csd
Pin32	P3.1	Port 3 Pin 1, analog/digital/lcd/csd

Pin33	P3.2	Port 3 Pin 2, analog/digital/lcd/csd
Pin34	P3.3	Port 3 Pin 3, analog/digital/lcd/csd
Pin35	P3.4	Port 3 Pin 4, analog/digital/lcd/csd
Pin36	P3.5	Port 3 Pin 5, analog/digital/lcd/csd
Pin37	P3.6	Port 3 Pin 6, analog/digital/lcd/csd
Pin38	VDDA	1.71-V to 5.5-V analog supply
Pin39	P3.7	Port 3 Pin 7, analog/digital/lcd/csd
Pin40	VDDD	1.71-V to 5.5-V digital supply
Pin41	XRES	Reset, active LOW
Pin42	P4.0	Port 4 Pin 0, analog/digital/lcd/csd
Pin43	P4.1	Port 4 Pin 1, analog/digital/lcd/csd
Pin44	P5.0	Port 5 Pin 0, analog/digital/lcd/csd
Pin45	P5.1	Port 5 Pin 1, analog/digital/lcd/csd
Pin46	GND	Ground

### **Comprehensive integration instructions:**

The devices must be installed and used in strict accordance with the manufacturer's instructions as

described in the user documentation that comes with the product.

- This device and its antenna(s) must not be co-located or operating in conjunction with any other

antenna or transmitter.

- The OEM integrator is responsible for testing their end-product for any additional compliance

requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

- In the event that the grant conditions cannot be met (for example certain laptop configurations or

co-location with another transmitter), then the FCC authorization for this module in combination

with the host equipment is no longer considered valid and the FCC ID of the module cannot be

used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating

the end product (including the transmitter) and obtaining a separate FCC authorization.

- The final end product must be labelled in a visible area with the following:

Contains FCC ID: 2AP2M4106

- **Information that must be placed in the end user manual:** The OEM integrator has to be aware not

to provide information to the end user regarding how to install or remove this RF module in the

user's manual of the end product which integrates this module. The end user manual shall include

all required regulatory information/warning as show in this manual.

#### **FCC statement**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### **IC statement**

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.