



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





■ BlueChip PLC Evaluation board Manual

Dolphin BCP-VoC for Video over Coax.
BCP-VC-E01 : Evaluation board (Dolphin VoC)

2016/03/15

MegaChips Corporation Proprietary



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■ EVALUATION KIT IMPORTANT NOTICE

MegaChips Corporation (MCC) provides these evaluation kits (EVKs) under the following **AS IS** conditions:

The EVKs are intended for use for **ENGINEERING DEVELOPMENT OR EVALUATION PURPOSES ONLY** and are not for commercial use. Therefore, the EVKs are not fault-tolerant and are not designed or manufactured with protective considerations, including but not limited to product safety measures typically found in finished commercial goods. As a prototype, the EVKs do not fall within the scope of the European Union Directive on electromagnetic compatibility. Also be aware that the EVKs may not be regulatory compliant or agency certified (FCC, UL, CE, etc.).

The EVKs have **110/220VAC POWER DIRECTLY CONNECTED TO THEIR CIRCUITS, which can cause PERSONAL INJURY, DEATH OR PHYSICAL DAMAGE**. Therefore, caution should be exercised when testing these devices. The user must be a skilled person in the practice and art of high voltage circuitry in order to utilize the circuits in the EVKs. It is highly recommended that the user should have qualifications or any certificate for handling 110/220VAC Power, **COMMON SENSE IS ENCOURAGED**. The user agree not to use the EVKs in any situation where damage or injury to persons, property or business could occur. Furthermore, the EVKs are **NOT FOR RESALE/COMMERCIAL USE AND MUST BE STRICTLY OPERATED IN A WELL-CONTROLLED LABORATORY ENVIRONMENTS**.

THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR PROPER AND SAFE HANDLING OF THE EVKS. FURTHER, THE USER RELEASES MCC FROM ALL CLAIMS ARISING FROM THE HANDING OR USE OF THE EVKS.

This notice contains important safety information as to handling EVKs. For further safety concerns, please contact a MCC application engineer.

BlueChip PLC Evaluation board contents

1. Dolphin BCP-VoC Master/Terminal set



① Packaging box :1pcs



② EVALUATION KIT IMPORTANT NOTICE :1pcs

③ BCP-VoC Master unit :1pcs

④ BCP-VoC Terminal unit :1pcs

⑤ Connector Plug for DC Connector Input :1pcs
MC 1,5/ 2-ST-3,81(PhoenixContact)

⑥ AC adapter(DC48V) :1pcs

■ Specifications

1. Master unit with PoC(Power over Coax.)

- Power Supply Input : DC-Jack Input : DC48V

(Note) Recommended AC Adapter : model No. SPU41A-111

DC Connector Input : DC48V~DC55V

- PoC drive capability : Max 2 Terminals with PoE class0(15.4W)
Max 4 Terminals with PoE class2(7W)
Max 8 Terminals without PoE

(Note) Hot-swap is not recommended.

2. Terminal unit with PoE(Power over Ethernet)

- Power Supply Input : PoC via Master unit
- PoE : IEEE802.15.4af (Max15.4W)

(Note) Hot-swap is not recommended.

■ Outline View



Label :
BCP-VoC(Master)

MAC ADDRESS

M/T LED : Green ON



Master unit



Label :
BCP-VoC(Terminal)

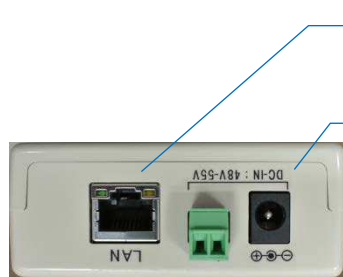
MAC ADDRESS

M/T LED : Green OFF



Terminal unit

Master unit Detail



LAN Port

DC Connector and DC Jack



MC 1,5/2-ST-3,81(PhoenixContact)
0.2mm²~1.5mm²/AWG30~14



Case Size
32mm(H) × 80mm(W) × 125mm(D)



PLC LED : PLC Link status

LAN LED : LAN status

M/T LED : Master mode :Green ON
Terminal mode :Green OFF

SETUP button : Exchanges keys

INIT button : Resets to factory default (push at least 1second)



BNC Connector with PoC(Power Over Coax)

Terminal unit Detail



LAN Port with PoE(Power Over Ethernet)

PoE Switch

>PoE enable Switch [OFF ⇔ ON]



PLC LED : PLC Link status

LAN LED : LAN status

M/T LED : Master mode :Green ON
Terminal mode :Green OFF

SETUP button : Exchanges keys

INIT button : Resets to factory default (push at least 1second)



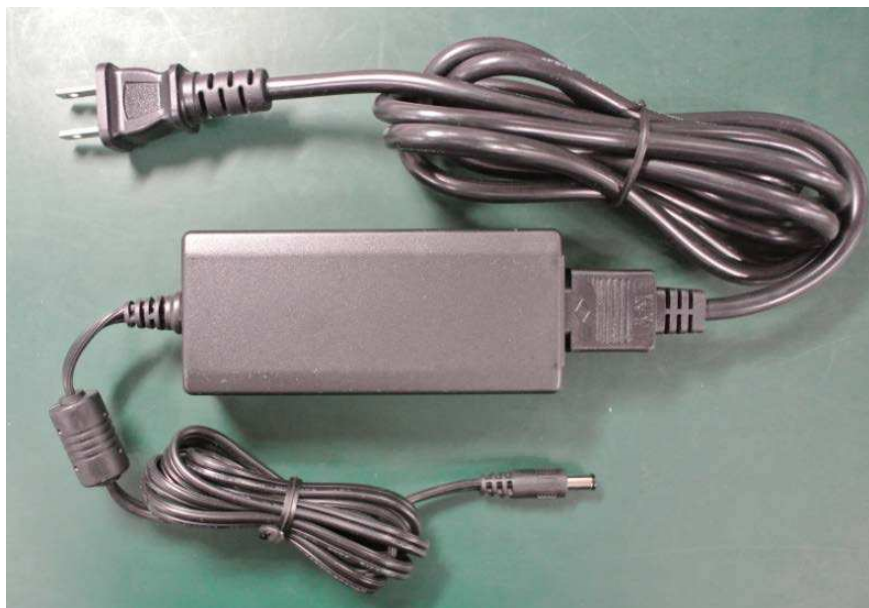
BNC Connector



Case Size

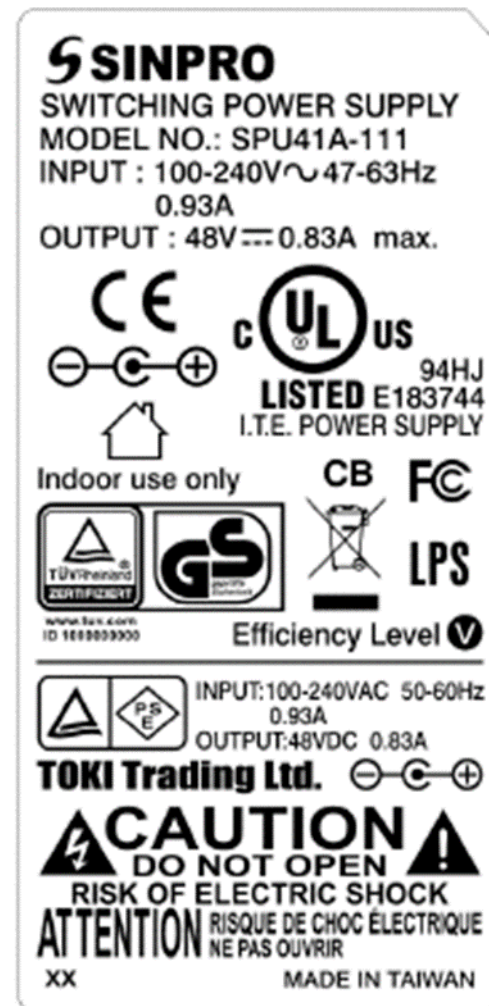
32mm(H) × 80mm(W) × 125mm(D)

■ AC/DC adapter



Maker : SINPRO
 ModelNo : SPU41A-111
 INPUT : 100-240V(47Hz-63Hz)/0.93A
 OUTPUT : DC48V/0.83A

【Label】



■ Connection Diagram (Ether Bridge Test)

- (1) Connect Ethernet Devices
- (2) Start Test

