

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



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 : Max 2 Terminals with PoE class0(15.4W)

PoC drive capability : Max 2 Terminals with PoE class0(15.4W)

Max 4 Terminals with PoE class2(7W)

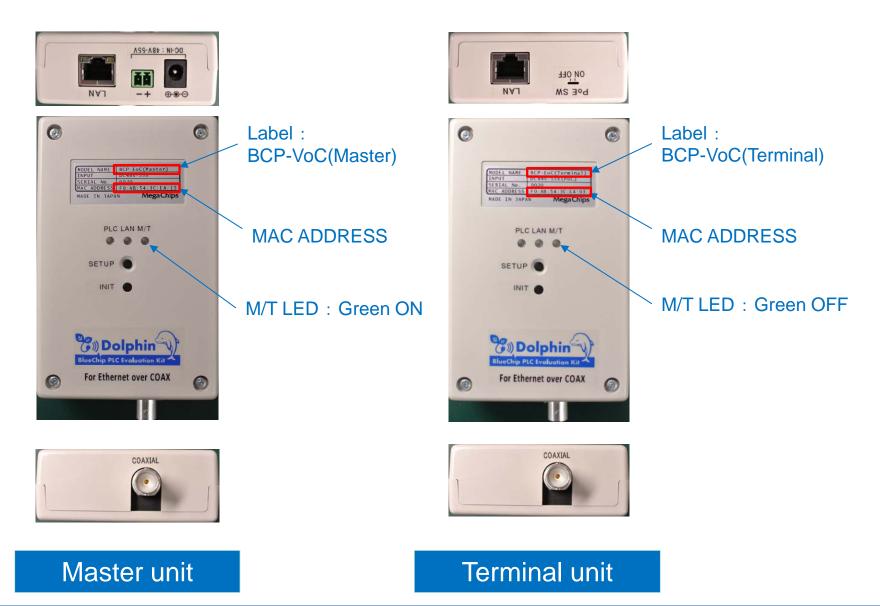
Max 8 Terminals without PoE

(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.

OutlineView

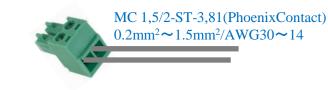


Master unit Detail

ASS-A8V : NI-DO

LAN Port

DC Connector and DC Jack







PLC LED : PLC Link status LAN LED : LAN status

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

32mm(H) × 80mm(W) × 125mm(D) :Green ON

Case Size

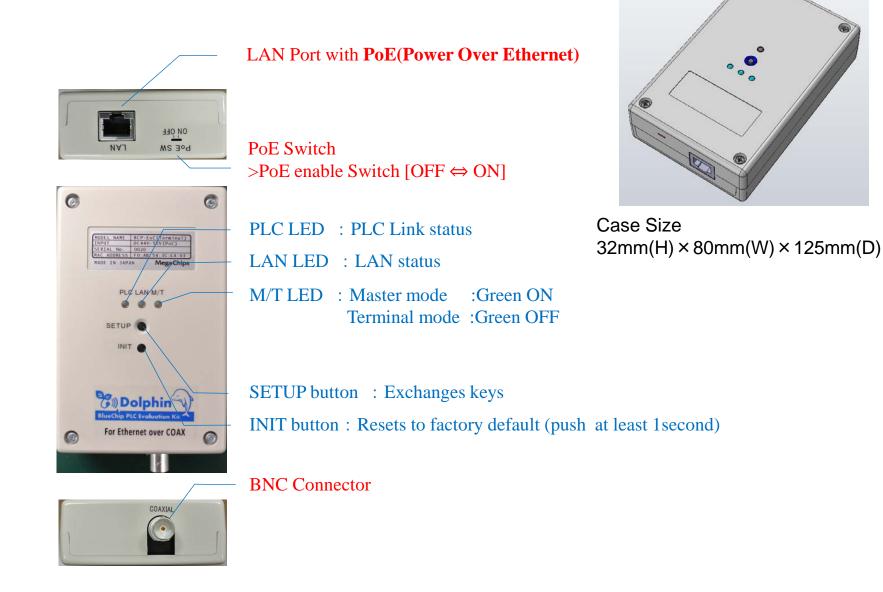
SETUP button : Exchanges keys

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

BNC Connector with PoC(Power Over Coax)



Terminal unit Detail



■AC/DC adapter



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

9 SINPRO SWITCHING POWER SUPPLY MODEL NO.: SPU41A-111 INPUT : 100-240V ~ 47-63Hz 0.93A OUTPUT : 48V == 0.83A max. Ð 94HJ LISTED E183744 I.T.E. POWER SUPPLY CB FC Indoor use only LPS When tax corn ID 1000000000 Efficiency Level INPUT:100-240VAC 50-60Hz 0.93A OUTPUT:48VDC 0.83A TOKI Trading Ltd. \ominus $\overline{\bigcirc}$ \oplus **RISK OF ELECTRIC SHOCK** E DE CHOC ÉLECTRIQUE XX MADE IN TAIWAN

[Label]

Connection Diagram (Ether Bridge Test)

(1)Connect Ethernet Devices(2)Start Test

