

Precautions for use

EZ-0008

Lighting Communication Master Evaluation Board

ZBB-CE-09-0008-E

Data Published March 2009

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EZ-0008

Packaging List

Item	Number
<input type="checkbox"/> 1. This board (EZ-DLMST-002)	1
<input type="checkbox"/> 2. Precautions for use (English)	1
<input type="checkbox"/> 3. Precautions for use (Japanese)	1
<input type="checkbox"/> 4. Table of Toxic and Hazardous Substance and Elements	1
<input type="checkbox"/> 5. Spacer	4
<input type="checkbox"/> 6. USB cable	1

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Safety Precautions




This document explains matters to be noted for safe use of this evaluation board. Be sure to read this document before using this evaluation board.

- Be sure to observe all dangers, warnings, cautions, and other instructions contained herein when using this evaluation board.
- This document should be kept handy at all times for ready reference.







Symbols used

This document used the following symbols for matters to be observed for the safe use of the unit.

The symbols are followed by a brief explanation of the possible extent of problems which may occur if the notices are not observed.

 Danger	The user may suffer death or serious injury and it's risk is high if the warning is not observed.
 Warning	The user may suffer death or serious injury if the warning is not observed.
 Caution	Human injury or property damage may occur if the caution is not observed.

The following symbols express matters which are prohibited in order to prevent injury or accident.

 General prohibition The action mentioned is prohibited.	 Do not touch Touching the specified location may cause injury.	 Do not disassemble Disassembly may cause a problem such as electrical shock or product failure.
 Keep away from water Use near water poses the risk of electrical shock or product failure if moisture were to contact the unit.	 Flammable A nearby flame may cause the unit to catch fire.	 Do not touch with wet hands Touching with wet hands may cause electric shock or product failure.









The following symbols are used for cautions to prevent product failure and accidents.

 General caution Unspecified general cautions.	 Caution Hot Human injury by high temperature may occur.
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The following symbols are used for instructions to prevent product failure and accidents.

 Compulsory action based on an instruction for the user.	 Instruction to unplug from AC power supply.
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Warnings

 Warning	
	<p>Do not use this board in the purpose except the evaluation of MCU. This board does not take safety measures or anti-EMI measures required for lighting equipment.</p>
	<p>Do not heat the board or expose it to fire, and do not short the terminals. Doing so may cause product failure, generation of heat, fire, or rupture.</p>
	<p>Do not disassemble or modify the board. Doing so may cause product failure, emission of smoke, fire, or electric shock.</p>
	<p>Do not touch with wet hands. Doing so while power is supplied cause product failure or electrical shock.</p>
	<p>Do not drop or jolt the board. Doing so may break or damage the board, causing fire or electric shock.</p>
	<p>Do not turn on power switch in insufficient state of cable connection such as USB cable, interface cable. Doing so may cause product failure, generation of heat, fire or electric shock.</p>
	<p>Do not plug in or unplug a connector or cable with power applied to the board. Doing so may cause product failure, generation of heat, fire or rupture.</p>
	<p>Do not carry this board with connecting USB cable and any cable. Doing so may cause damage of cable and cause product failure, generation of heat, fire or electric shock.</p>
	<p>Use this board with spacer and on the isolated bench. In case conductor contact to the board, it may cause product failure, generation of heat, fire or electric shock.</p>
	<p>If smoke or an abnormal smell or sound is emitted, or heating occurs, promptly unplug USB cable. Using the board in such a state poses a risk of fire, burning, or electric shock.</p>

Cautions

 Caution	
	<p>Do not use or store this board in any of the following locations.</p> <ul style="list-style-type: none">- Environments with copious water, humidity, steam, dust, fumes, etc.- Environments where static electricity or electrical noise is readily generated. <p>Such influences can lead to electric shock or product failure.</p> <p>In case liquid enters the board, cut the power supply, and consult your dealer or NEC Electronics sales representative.</p> <p>Even if the unit appears to be dry, internal moisture may remain.</p>
	<p>To prevent static electricity damage, guard against energizing when touching metal parts such as the connector.</p> <p>Static electricity can cause product failure.</p>

Overview

This board can be used as communication master in case controlling each lighting evaluation board ^{Note} by communication.

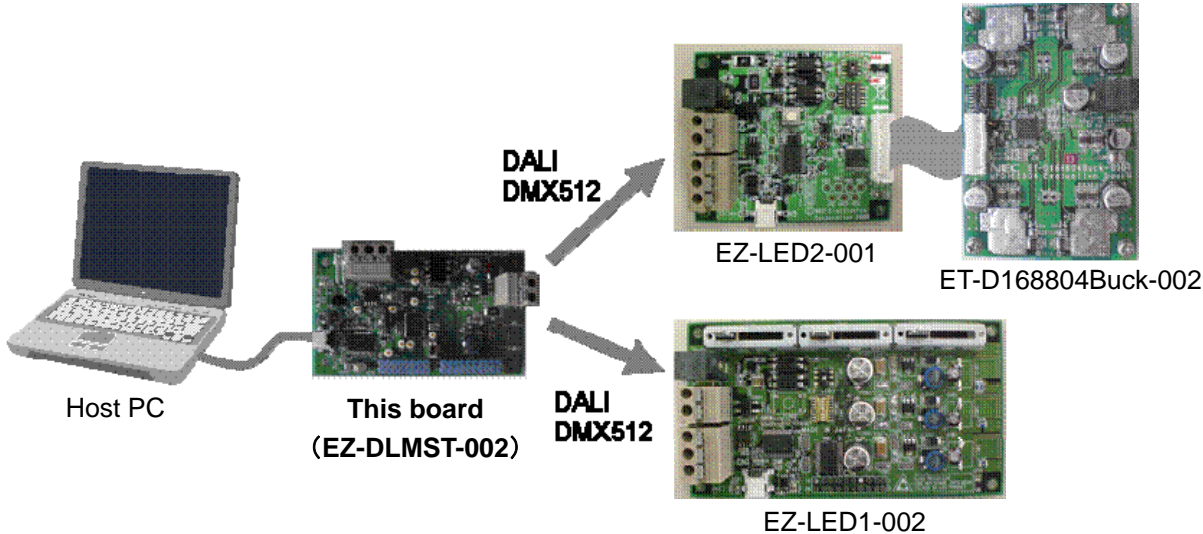
Each lighting evaluation board can be controlled via this communication master board by using GUI. Control GUI can be download from NEC Electronics WEB site)

This board is using USB bus power for its operation.

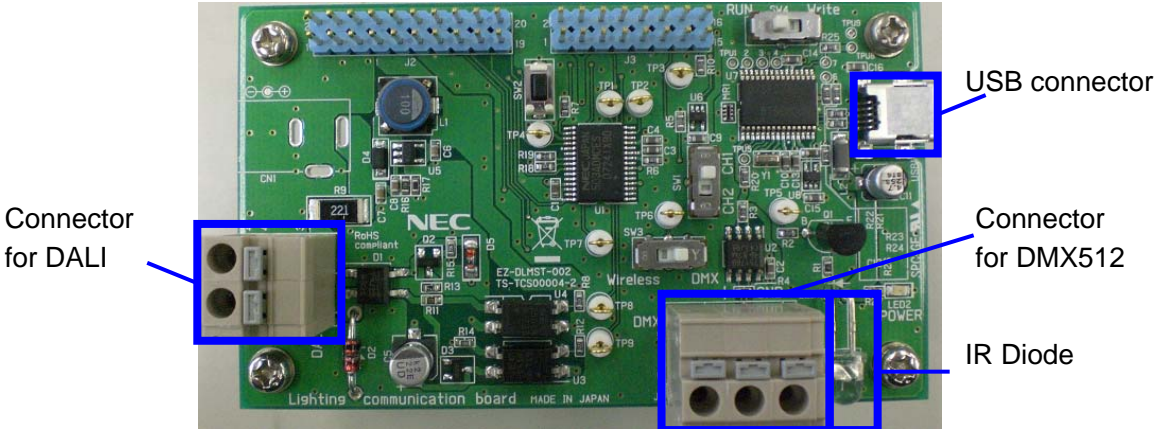
Note. Following boards can be controlled

78K0/IB2 HBLED Evaluation board (EZ-LED1-002) Part number: EZ-0005

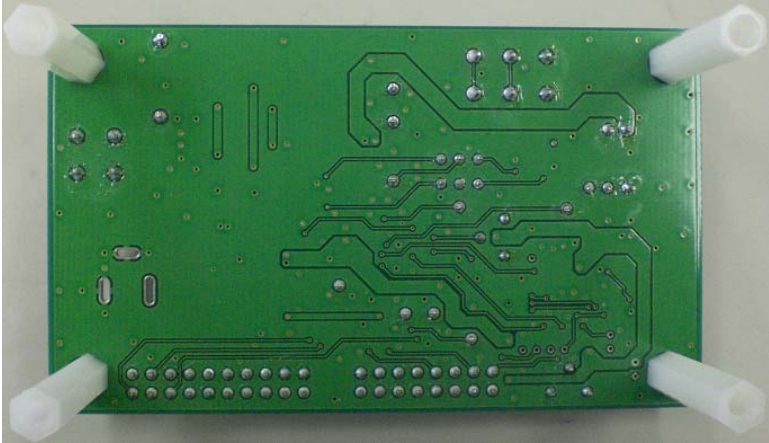
78K0/IA2 PWM Evaluation board (EZ-LED2-001) Part number: EZ-0006



Appearance of the board



Surface appearance (TOP View)



Surface appearance (Bottom View)

As for usage of this board, please download the User's Manual from following URL.

URL: <http://www.necel.com/micro/en/solution/lighting/index.html>

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Data Published March 2008