



TMS LITE SDN. BHD. (Co. No. 671971V)
LED ILLUMINATION SOLUTION PARTNER



LC-18-M
Lighting Controller Unit (Master)

USER MANUAL

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Revision Notes

Rev	Date/Author	Comment
1.0	Dec2020/KW	First Revision

General Description

The LC-18-M is the master unit for LC-18 series controllers. It acts as a communication hub between the PC and slave units.

Specification

Parameter	Value
Controller Supply Voltage	24 VDC
Software Control	RS232 / TCPIP

Connectors Description



Terminal	Function
VS (24V)	Controller Power Supply +
GND (0V)	Controller Power Supply -
COMM	Communication Port (between master and slave boards)
RS232	RS232 Communication
TCPIP	TCPIP Communication

Change IP Address

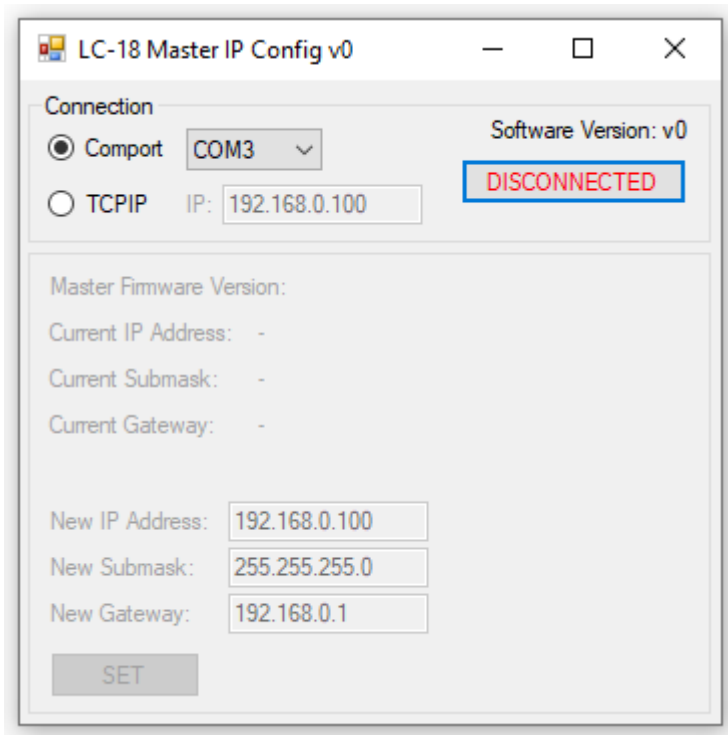
For TCPIP connection, the IP address can be changed using the Master IP Config software.

Default IP Setting:

IP Address: 192.168.0.100

Subnet Mask: 255.255.255.0

Gateway: 192.168.0.1



Step:

- 1) Connect using COMPort or TCPIP. Current IP will be displayed.
- 2) Type in the new IP address
- 3) Click SET button
- 4) Restart controller power

**** REMARK:**

Controller power must be restarted in order for the new IP to come into effect.

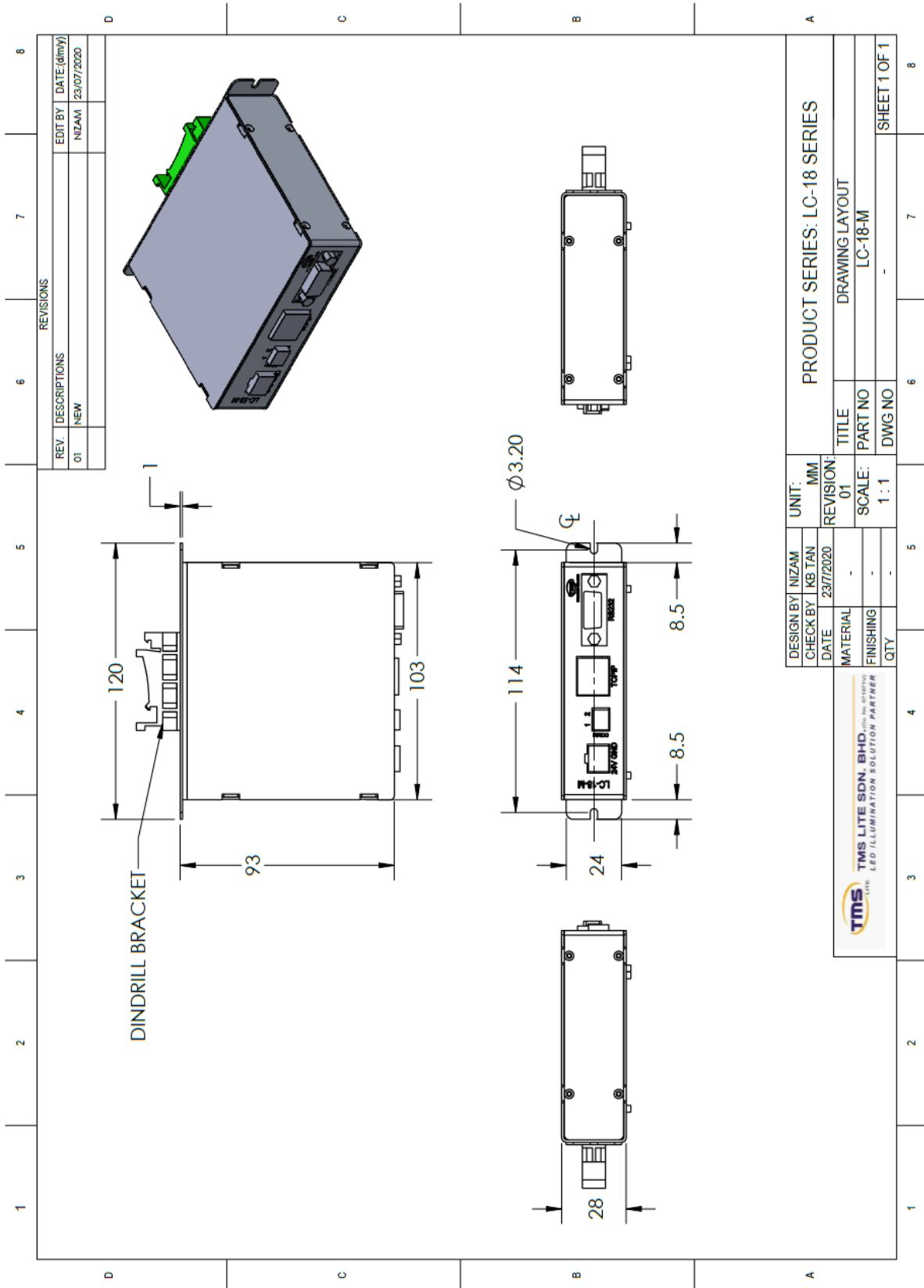
Communication Connection

All the COMM connector must be looped together for the communication between slave boards

All COMM1 and COMM2 must be looped together as shown below:



Drawing Dimension



Communication Protocol

1. Communication Setting

COMPORT

Baud Rate = 115200

Data Bits = 8

Parity = None

Stop Bits = 1

TCPIP

Default IP: 192.168.0.100

Default Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.1

2. Master Command.

Message Format (ASCII)

Write

@	YY	{	ZZZZ	}
Starting Byte	Command Code	Open Bracket	Data	Close Bracket (End Byte)

Read

@	YY	{	}
Starting Byte	Command Code	Open Bracket	Close Bracket (End Byte)

Return Message

@	YY	{	ZZZZ	}
Starting Byte	Command Code	Open Bracket	Data	Close Bracket (End Byte)

2.1 Write to Master

Command List

Command (YY)	Code	Command Description	Data	No. of Byte
MSI		Set IP Address	WWW.XXX.YYY.ZZZ	15
MSS		Set Subnet Mask	WWW.XXX.YYY.ZZZ	15
MSG		Set Gateway	WWW.XXX.YYY.ZZZ	15
MSU		Update IP	NONE	0

Send Update IP command after done setting IP/Submask/Gateway

****REMARK:**

Do a power restart on the Master Unit for the new IP Address to come into effect

Example

Set IP Address = 192.168.0.123

Tx > @MSI{192.168.000.123}

Rx < @MSI{192.168.000.123}

Update IP on Master

Tx > @MSU{ }

Rx < @MSU{ }

2.2 Read from Master

Command Code (YY)	Command Description	Return	
		Data	No. of Byte
MRI	Read IP Address	WWW.XXX.YYY.ZZZ	15
MRS	Read Subnet Mask	WWW.XXX.YYY.ZZZ	15
MRG	Read Gateway	WWW.XXX.YYY.ZZZ	15
MRV	Read Firmware Version	WXYZ (W.X.Y.Z)	0

Example

Read IP Address = 192.168.0.123

Tx > @MRI{ }

Rx < @MRI{192.168.000.123}

3. Slave Command

Please refer to the slave unit's user manual for slave commands description.



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