

- ledTec.flex | display | P5 | 3000

User Manual
V 1.1

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Safety Information

PROTECTION FROM ELECTRIC SHOCK

- Read and respect the directions given in the user manuals of all the devices that you intend to connect to the ledTex.flex display, particularly the instructions, warnings and limits that apply to:
 - System layout,
 - connections to other devices,
 - specified cables,
 - maximum cable lengths, and
 - maximum number of devices that can be connected.
- Use only the cables specified by LightnTec for the devices concerned to interconnect them. If the specified cables are not long enough for an intended cable run, consult LightnTec for assistance in finding or creating a safe alternative cable
- Do not allow the total length of the cables to exceed 1 m from the 5 VDC power source .

PROTECTION FROM BURNS AND FIRE

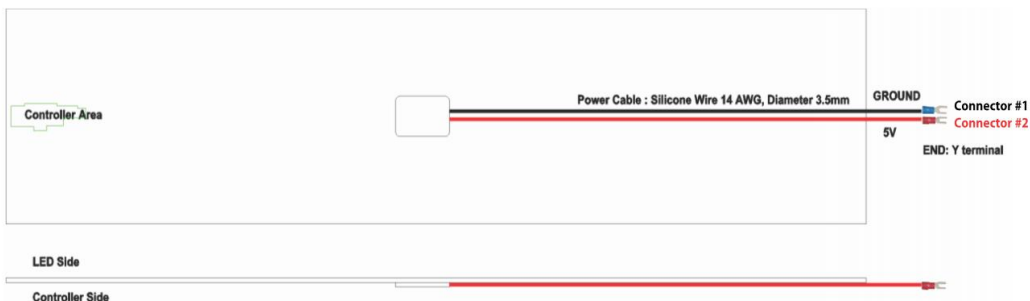
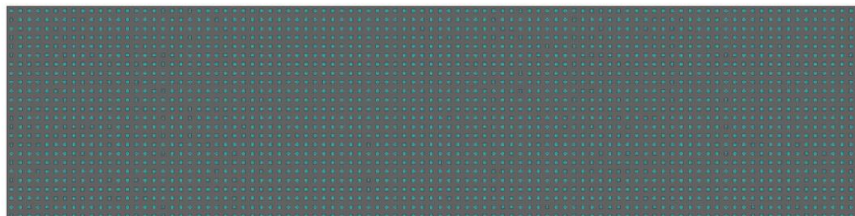
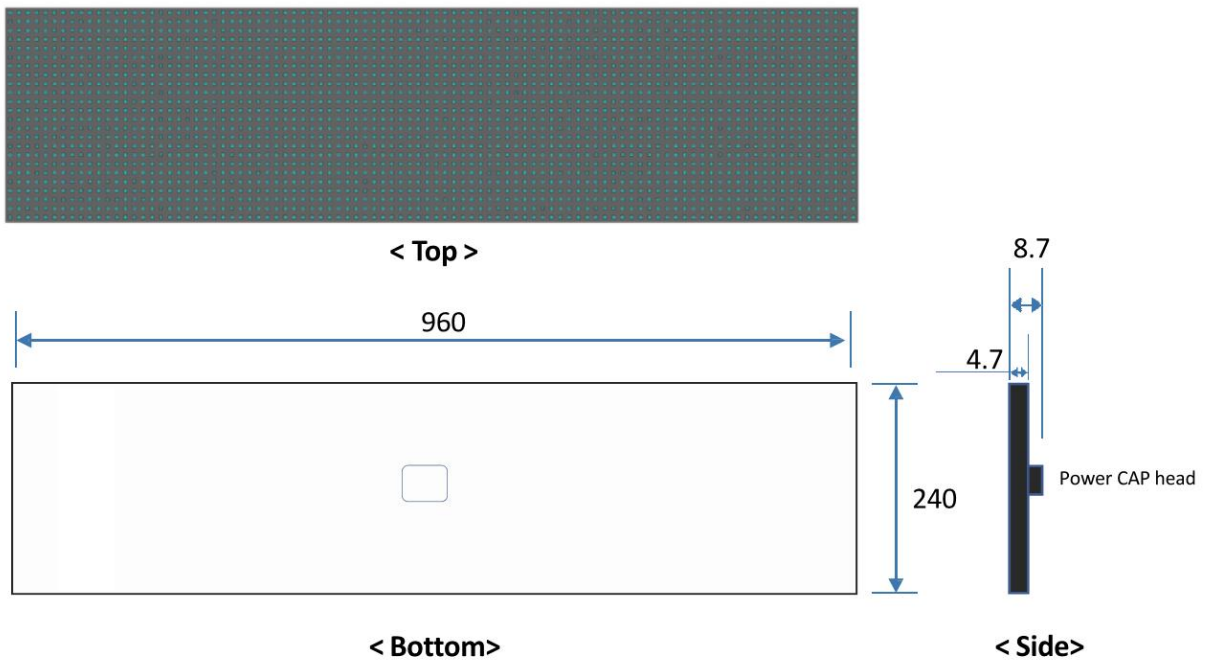
- The ledTec.flex is cooled by convection. Provide free airflow and a minimum clearance of 10 mm (0.4 in.) around modules.
- Do not operate the ledTec.flex display if the ambient temperature (T_a) exceeds 40° C (104° F).
- Do not modify the ledTex.flex display in any way not described in this manual or install other than genuine parts.

PROTECTION FROM INJURY

- When installing the ledTex.flex display above ground level, ensure that the installation hardware and supporting structure can hold at least 10 times the weight of all the devices they support.
- In an overhead installation or where the ledTex.flex may cause injury if it falls:- block access below the work area and work from a stable platform whenever installing, servicing or moving the ledTex.flex, and- as soon as work is completed, check that all hardware and components are securely in place and fastened to supporting structures.

Introduction

This is a thin flexible LED display Unit including 192 x 48 pixels (960 x 240mm) with a 5.0mm pixel pitch respectively. This unit has built-in 32 GByte and supports up to 100 playlist entries. The foil has 3000 NIT and is suitable for shaped indoor applications with high lumen output and limited space requirements.



(Rear Side Power Connector)

Connector #1 (Black)

GND (0V)

Connector #2 (Red)

5V

Installation

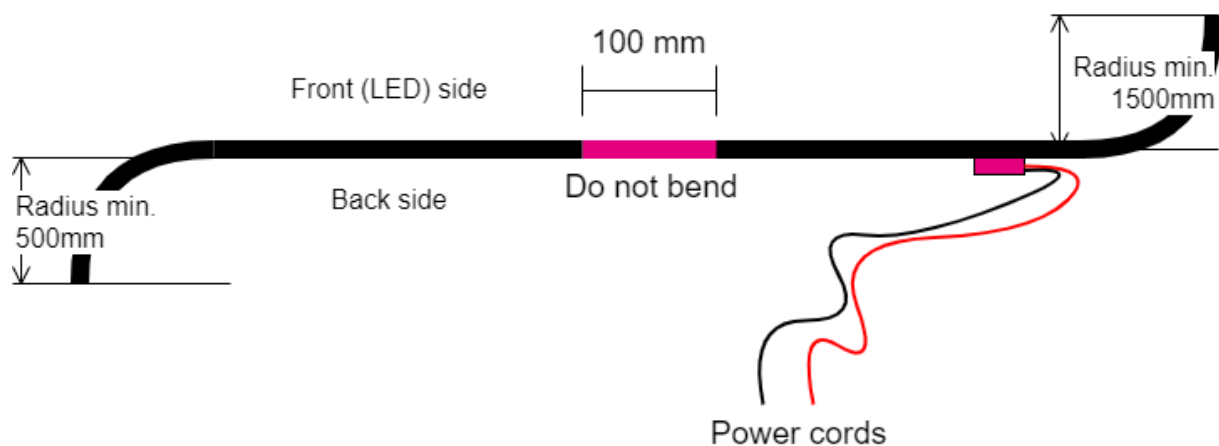
Employ protection circuit for power supply, whenever the specification specifies it. A fuse is not fitted to this module. Therefore, without a suitable power-supply protection device, dust or partial circuit failure may cause overheating and/or burning, which may lead to injury.

Do not expose the module to any gas which is not normally contained in the atmosphere, it may cause mis-operation or defects.

Power supplies should always be turned off during the assembly process. Do not connect or disconnect the power cables and connectors with power applied to module. This may cause damage to the module circuit. In operating module at the inspection process, and so on, the supply voltage and signals of driving device must satisfy the sequence of power supplies and signals described in this specification.

Handling the display

To avoid damage to the display, the recommended bending radius must be maintained.



Configure the displays

At default, the display tries to connect to the Wi-Fi with the SSID "LnT_P5_WiFi" and the password "#LnT_P5#"

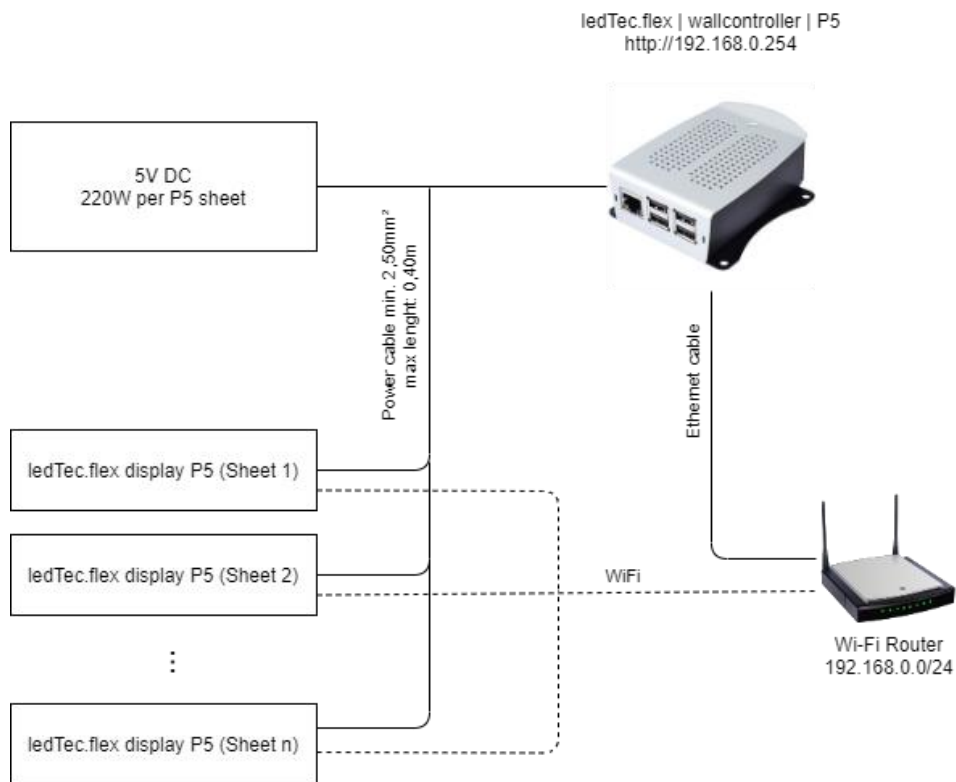
The IP address of the controller should be 192.168.0.254 otherwise the controller is unable to receive any information from the display.

After power on, the displays get its IP addresses dynamically over DHCP. Each display has a group ID, to control displays in a same Wi-Fi network independently.

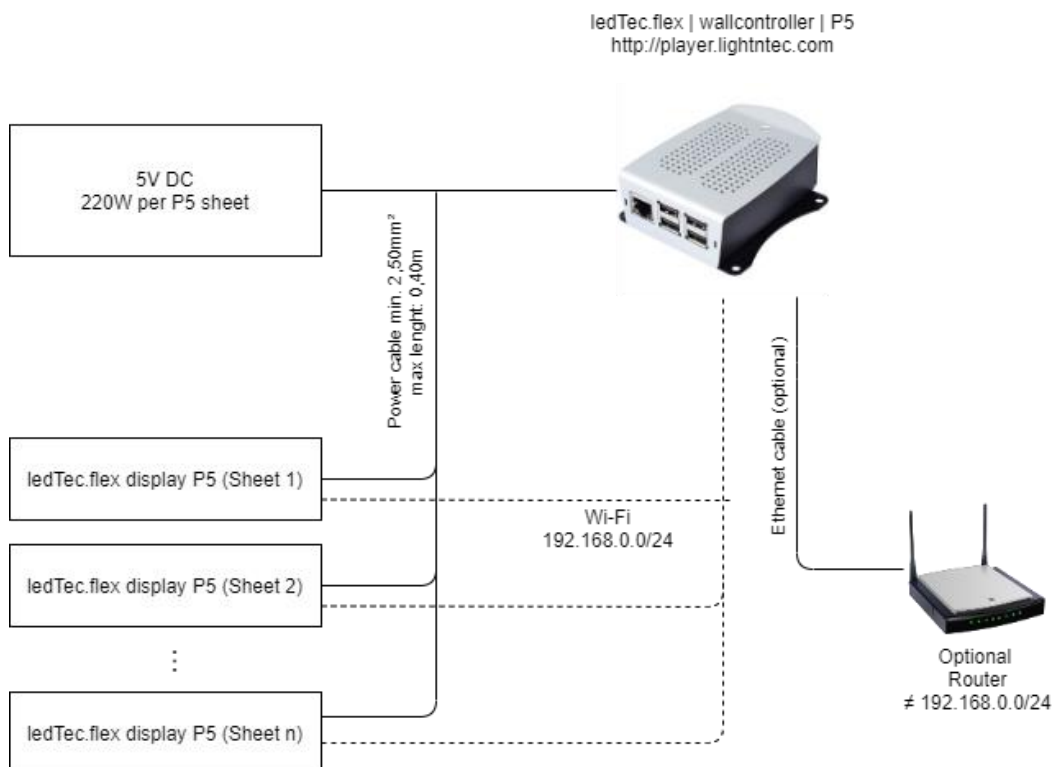
The default group ID is "LnT_group_000001"

System Configuration

Controller in client mode



Controller in access point mode



Technical specification

LED Pitch	5mm
Light Source (LEDs)	40000(Pixel/sqm) RGB SMD LED, individually controllable
Color Range	16.7 Mill Colors
Refresh rate	>2000Hz
Frame rate	<=40Hz
Beam Angle	110 deg
Luminance Pitch	3000cd/m ² (NIT)
Operating Temperature	-15°C up to 40°C
Storage Temperature	-20°C up to 80°C
Lumen Maintenance	L50 @ 25°C -50.000hrs
Weight	1200g per sheet (4800g/sqm)
Dimensions L x W x H	960mm x 240mm x 4mm
Min Bending Circumference	1920mm (2 Sheets), horizontal axis
Min Bending Radius	horizontal 305,50mm
Mounting	Velcro
Surface	Urethan
Color of the surface	Black
Approbation	CE, RoHS, FCC, Reach, (ETL on request)
Environment	IP20, indoor (IP44/IP65 on request)
Humidity	0-90%, non-condensing

Electrical Specifications

Operating voltage	5 V DC
Power Consumption (typical)	140W
Power Consumption (maximum)	220W

System Specifications

Power Supply	AC110V/230V-1000W
Control	Wi-Fi 2.4 GHz/ 802. 11b/g/n
Media Player	1 HDMI mini out, WIFI, mini SD,
Local Memory	1GB per sheet, distributed in 100 play lists
Addressing Options	per Software

Troubleshooting

<i>Problem</i>	<i>Reasons</i>	<i>Solution</i>
<i>Display does not respond to any command</i>	There might be a problem with the power supply	<ul style="list-style-type: none"> ▪ Make sure, that the power supply has the specification to drive the display ▪ Check the wiring and the polarity
	Wi-Fi is not available, or the password is incorrect	
	The group id is incorrect	
	The Wi-Fi signal on the display is weak	
	Controller is in a different subnet than the displays	
	Wi-Fi access point blocks broadcast messages	Some Wi-Fi access points block broadcast messages for higher efficiency. Turn this option in you access point off.
<i>The controller could not find the displays</i>	The controller has a wrong IP address	Set the IP address of the controller to 192.168.0.254
	There is no DHCP server in the network	Set up a DHCP server