

Product Specification

() Preliminary Specification

(v) Final Specification

| | |
|------------|---------------------------------------|
| Module | 210400700 LED Panel Module controller |
| Model Name | 011002700 |

| | |
|--|-------------|
| Customer | Date |
| _____ | _____ |
| Approved by | |
| _____ | _____ |
| <p>Note: This Specification is subject to change without notice.</p> | |

| | |
|--|-------------------|
| Checked & Approved by | Date |
| Shawn Huang | 2018/03/15 |
| _____ | _____ |
| Prepared by | |
| _____ | _____ |
| <p>Eng. Dept. / FANDIN TECHNOLOGY CO., LTD</p> | |

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Record of Revision

| Version & Date | Page | Old Description | New Description | Remark |
|---------------------------|-------------|------------------------|------------------------|---------------|
| V.0 2018/03/15 | All | First Edition | All | |
| | | | | |
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1. General Description :

011002700 is a controller of LED Panel Module for 10.4" 210400700 1000nits LCD panel .

2. Electrical Characteristics :

2.1 Input Condition :

| Symbol | Parameter | Min. | Typ. | Max. | Unit | Remark |
|--------|-------------------|------|------|------|--------|--|
| Vin | Input Voltage | 10.8 | 12.0 | 15.0 | [Vdc] | - |
| Iin | Input Current | - | 3.1 | - | [Adc] | Vin=12V, Vadj=100% |
| Pin | Input Power | - | 37.2 | - | [Watt] | Vin=12V, Von/off=5V, Vadj=100% |
| Von | On / Off Voltage | 1.25 | 5.0 | - | [Vdc] | On state |
| Voff | | - | 0.0 | 0.4 | | Off state |
| Vadj | Brightness ADJUST | 0% | - | 100% | PWM | 0%= Min Brightness 100%= Max Brightness |

2.2 Output Charactersics :

| Symbol | Parameter | Min. | Typ. | Max. | Unit | Remark | |
|----------------------------------|-----------------------|-----------------------|------|------|------|-----------|--------------|
| Io(max) | Output Current | - | 250 | - | [mA] | Vadj=100% | |
| Io(min) | | - | 0 | - | [mA] | Vadj=0% | |
| PF | PWM control Frequency | 85 | 100 | - | [Hz] | - | |
| PV | PWM control Voltage | 3.3 | 5 | | | | |
| PD | PWM control Duty | 0 | | TBD | [%] | | |
| η | Power Efficiency | 85 | 90 | - | [%] | - | |
| VL | Output Open | Over Voltage Protect | | | | | RL= ∞ |
| VL | Output Short | Short Current Protect | | | | | RL=0 |
| Operating Temperature (Ha=90%RH) | | 0 | - | 60 | [°C] | - | |
| Storage Temperature (Ha=95%RH) | | -20 | - | 85 | [°C] | - | |

3.Pin assignment :

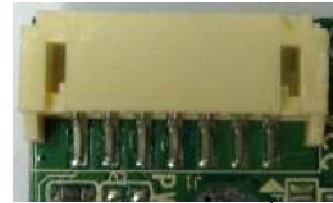
3.1 Input connector : J1

Model Name : S7B-PH-SMB-TB(JST)

(J1)

Connector Type: 2.0mm 7pin Wafer (SMD)

| Pin No. | Description |
|---------|----------------|
| 1 | +12V |
| 2 | +12V |
| 3 | +12V |
| 4 | Ground |
| 5 | PWM Control |
| 6 | Ground |
| 7 | ON/OFF Control |



(pin1)

3.2 Output connector : J2 , J3

Model Name : S2B-PH-SMB-TB(JST)

(J2)

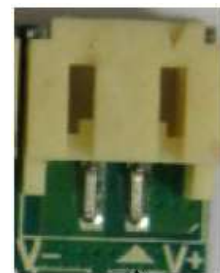
Connector Type: 2.0mm 2pin Wafer (SMD)

| Pin No. | Description |
|---------|-------------|
| 1 | VLED+ |
| 2 | VLED- |

(J3)

Connector Type: 2.0mm 2pin Wafer (SMD)

| Pin No. | Description |
|---------|-------------|
| 1 | VLED+ |
| 2 | VLED- |



(pin1)

4. Mechanical Characteristic :

Dimension : 75(L)*30(W)*8.65(H)mm

Weight : Max. 20g

