

DT-01-059 (43" touch display module, 2500 nits LED backlight, Full-HD 1920x1080, wide aspect ratio 16:9) The 43"inch colour TFT-LCD touch display with aspect ratio 16:9 and wide resolution 1920 x 1080.

It is 100% designed for outdoor application with 6 mm anti-vandal cover-glass, AG coating & for high brightness maximum 2500 nits with power efficiency LED backlight. Widely using for Public transportation, exhibition hall, department store, and outdoor vending machine, outdoor VTM devices.

Key Features

- 6mm AG80 PCAP Touch
- Wide Screen (16 : 9)
- High Brightness 2500 nits
- High TNI 105°C TFT panel
- EXC80H100 touch controller
- UV grade optical bonding
- SCA-UV resistance
- Backlight MTBF: 50,000 hours

Ordering P/N:

DT-01-059

Display Technology P/N:

DT-01-059

LCD Specification

Part number	DT-01-059
Description	2500 nits High brightness LCD Touch display @ WACKER LUMISIL 102FC optical bonding
Screen Size	43"
Display colors	16.7M (8bits -True)
Display Area (mm)	941.00(V) x 529.00(H)
Pixel pitch	163.35(H) X RGB X 490.05(V)
Display mode	Transmission mode, Normally Black
Power Consumption	196.0 W (Typ.) / LCD Open Cell = 6.0 W(Typ.), LED Backlight = 190.0 W(Typ.)
White Luminance	2500cd/m2
Resolution	1920x1080
Aspect Ratio	16:9
Contrast Ratio	1200:1
LCD Weight	8.70Kg
Viewing Angle	89/89/89/89 (Typ.) (CR ≥ 10)
Response Time (Typical)	8ms
Panel Interface	LVDS
LCD enduring treatment	High TNI 105°C
Operating Temperature	-20 °C ~ 70 °C
Storage Temperature	-20 °C ~ 70 °C
LCD enduring treatment	High TNI 105°C

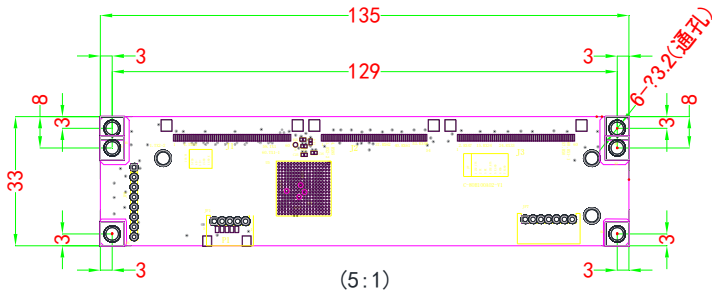
Touch Panel Specification

Touch Technology	Projected Capacitive Touch panel
Cover-glass	6mm physical tempered cover-glass
Surface treatment	Etching gloss AG80°
Light transmittance	≥78%
Total thickness	7.4mm (including touch sensor)
Dimensions (mm)	1057.80(V) x 653.00(H)

Black silk-printing (U/B/L/R)	58.50mm(upper)/65.50mm(lower)/58.40mm(right)/58.40mm(left)
FPC interface cable	97.70mm (in landscape mode) out from Top-center
Touch controller	EXC80H100
Surface hardness	6H
Operating Temperature	-20 °C ~ 70 °C
Storage Temperature	-20 °C ~ 70 °C
Operating Humidity	20% ~ 90%

LUMISIL® 102FC A/B	
LUMISIL® 102FC A/B is 2-part silicone gel(1:1) that cured by heat condition for displays.	
<ul style="list-style-type: none"> • Self-leveling with low viscosity • Fast cure at low temperature (under 70°C) • Good optical performance • Remarkable high reliability • Excellent thermal stability • Low shrinkage 	
Mixer type	Mechanical-mixer
Impeller	Propeller 4-bladed
Speed	1200 rpm
Mix time	2 min

Touch Controller drawing



Full optical bonding assembling drawing

