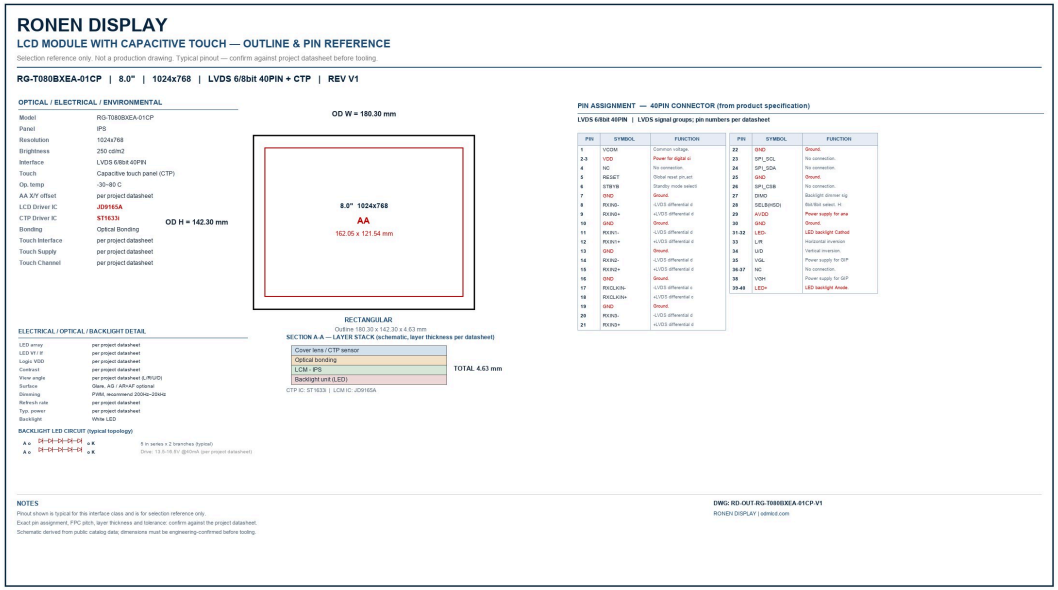
RONEN DISPLAY

LCD Module Datasheet

RG-T080BXEA-01CP

SPECIFICATION

Display Size	8.0 inch
Resolution	1024x768
LCD Type / Shape	IPS
Luminance	250 cd/m2
Module Interface	LVDS 6/8bit 40PIN
Touch Option	Capacitive touch panel (CTP)
Active Area (mm)	162.05x121.54
Outline Dim. (mm)	180.30x142.30x4.63
Operating Temp. (°C)	-30 ~ +80 degC
Storage Temp. (°C)	-30 ~ +80 degC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LCD MODULE WITH CAPACITIVE TOUCH — OUTLINE & PIN REFERENCE

Selection reference only. Not a production drawing. Typical pinout — confirm against project datasheet before tooling.

RG-T080BXEA-01CP | 8.0" | 1024x768 | LVDS 6/8bit 40PIN + CTP | REV V1

OPTICAL / ELECTRICAL / ENVIRONMENTAL

Model	RG-T080BXEA-01CP
Panel	IPS
Resolution	1024x768
Brightness	250 cd/m2
Interface	LVDS 6/8bit 40PIN
Touch	Capacitive touch panel (CTP)
Op. temp	-30~80 C
AA X/Y offset	per project datasheet
LCD Driver IC	JD9165A
CTP Driver IC	ST1633i
Bonding	Optical Bonding
Touch Interface	per project datasheet
Touch Supply	per project datasheet
Touch Channel	per project datasheet

OD W = 180.30 mm

OD H = 142.30 mm

8.0" 1024x768

AA

162.05 x 121.54 mm

RECTANGULAR

Outline 180.30 x 142.30 x 4.63 mm

SECTION A-A — LAYER STACK (schematic, layer thickness per datasheet)

Cover lens / CTP sensor

Optical bonding

LCM - PS

Backlight unit (LED)

TOTAL 4.63 mm

CTP IC: ST1633i | LCM IC: JD9165A

ELECTRICAL / OPTICAL / BACKLIGHT DETAIL

LED array	per project datasheet
LED Vf / If	per project datasheet
Logic VDD	per project datasheet
Contrast	per project datasheet
View angle	per project datasheet (L/R/U/D)
Surface	Glare, AG / AR+AF optional
Dimming	PWM, recommend 200Hz~20kHz
Refresh rate	per project datasheet
Typ. power	per project datasheet
Backlight	White LED

BACKLIGHT LED CIRCUIT (typical topology)

A o — [LED][LED][LED][LED] — o K

A o — [LED][LED][LED][LED] — o K

8 in series x 2 branches (typical)

Drive: 19.5~38.5V @60mA (per project datasheet)

PIN ASSIGNMENT — 40PIN CONNECTOR (from product specification)

LVDS 6/8bit 40PIN | LVDS signal groups; pin numbers per datasheet

PIN	SYMBOL	FUNCTION
1	VCOM	Common voltage
2-3	VDD	Power for digital ci
4	NC	No connection
5	RESET	Global reset pin,act
6	STBYB	Standby mode select
7	GND	Ground
8	RX0N3-	-LVDS differential d
9	RX0N3+	+LVDS differential d
10	GND	Ground
11	RX0N1-	-LVDS differential d
12	RX0N1+	+LVDS differential d
13	GND	Ground
14	RX0N2-	-LVDS differential d
15	RX0N2+	+LVDS differential d
16	GND	Ground
17	RXCLKIN-	-LVDS differential c
18	RXCLKIN+	+LVDS differential c
19	GND	Ground
20	RX0N0-	-LVDS differential d
21	RX0N0+	+LVDS differential d

PIN	SYMBOL	FUNCTION
22	GND	Ground
23	SPI_SCL	No connection
24	SPI_SDA	No connection
25	GND	Ground
26	SPI_CSB	No connection
27	DIMO	Backlight dimmer sig
28	SELB(HDD)	8bit/6bit select, H
29	AVDD	Power supply for ana
30	GND	Ground
31-32	LED-	LED backlight Cathod
33	L/R	Horizontal inversion
34	U/D	Vertical inversion
35	VGL	Power supply for GIP
36-37	NC	No connection
38	VDH	Power supply for GIP
39-40	LED+	LED backlight Anode

NOTES

Pinout shown is typical for this interface class and is for selection reference only.

Exact pin assignment, FPC pitch, layer thickness and tolerance: confirm against the project datasheet.

Schematic derived from public catalog data; dimensions must be engineering-confirmed before tooling.

DWG: RD-OUT-RG-T080BXEA-01CP-V1

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Outline drawing - for reference only; confirm with latest datasheet.

Notes

Values are typical at 25 degC unless otherwise specified. Full drawing, pin assignment and qualification data available on request. Sales terms are confirmed per project.

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