



SOLUTIONS ENGINEERING

CFG 255 000

Monochrome Display Platform For Embedded Applications

CFG's 255 000 monochrome display platform is a complete, graphics LCD module designed for embedded applications. With its multicolor backlight unit and internal microprocessor, the CFG 255 000 has a wide range of functions and options that facilitate applications development. Using simple commands, the developer can easily program application screens and display his data in a very short time. Its modular form allows it to be mounted into control panels and other instrumentation, while its rugged design make it suitable for industrial, automobile and other harsh environment applications.

Features include :

- Multiple color backlight selectable by user
- Integrated micro-controller with temperature and light sensors to manage display contrast and brightness in an automatic and transparent manner thus ensuring optimum viewing at all times.
- RS-232 or RS-485 (optional) bus for communication with the central processor unit.
- Optional ambient light sensor for automatic backlight control
- Optional infra-red receptor for use with remote control unit (available as a separate unit).

Display Specifications

Type : FSTN,transflective, positive contrast,

Resolution : 120 x 64 dots plus 2 pixel wide frame border

View area : 84.5 mm x 46.3 mm

Active area : 83.05 mm x 45.53 mm

Dot size : 0.64 mm x 0.64 mm

Pixel pitch : 0.67 mm x 0.67 mm

View angle : 12 O'Clock



Operating temperature : -20° to +75° C operational
-20° to +60° C at full specification

Storage temperature : -40° to +85° C
to +90° C for 1 hour

Backlight : Orange (605 nm) $10 \pm 2 \text{ cd/m}^2$ at PWM = 100%
(Other colors possible on special request)

Contrast : typically 10 ; Temperature compensated

Electrical Specifications

- Microcontroller :** Philips 80C51 family
- Data Bus :** RS232 ; RS485 (optional)
- Connection :** FFC or ZIF connector
- Protection :** Module protected against short power supply outages of 100 μ sec durations due to vibrations and shocks.
- Sensors :** Temperature sensor for LCD contrast compensation.
- OPTIONAL :** Upon special request, the CFG 255 000 may also be equipped with :
- **Automatic backlight adjustment function**
This feature automatically adjusts the backlight intensity to the ambient light conditions to provide optimal viewing conditions
 - **Infra-red receptor**
 - **Separate remote control unit** (requires infra-red receptor)

Mechanical Specifications

Module dimensions : 102.7 mm (W) x 73 mm (H) x 18.3 mm (T) max.

Mounting : Two mounting holes on top and two on bottom

Specifications may be changed without prior notice



CFG's *e-look* display contains an embedded 255 000 module

LCD/255.1/01

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