# DP156

## 15.6" display for panel mounting

**DP156 is a panel computer intended to be mounted in for example a cabinet door. It can very easily be connected to Regin's EXO4 Web Server and Regin's controllers, with or without integrated web.**

- **Display for access to EXO4 Web Server and Corrigo Web via Internet Explorer**

- **EXO4 as an extra communication server, e.g. as a TCP/IP master**
- **EXO4 as a main computer or work station via a network**

Regin's 15.6" display for panel mounting consists of a touch screen monitor with an integrated PC. Windows XP 2002 Service Pack 2 and Internet Explorer 6 are pre-installed on the PC. DP156 can be connected to systems with EXO4 Web Server or Corrigo Web controllers, without additional installation. After installation of EXO4, DP156 can also be used as an EXO4 computer for Regin controllers without integrated web.

The display is resistant in harsh environments. Hardware for panel mounting is included in the delivery. DP156 is fanless and does not require a fan.

### Dust-resistant and waterproof front panel
The front panel has protection class IP65, guaranteeing that it is dust-resistant and waterproof.

### Applications
When the panel computer is connected to a TCP/IP network, it can be used as a graphical display for a Corrigo Web controller and an EXO4 Web Server.

For maximum operational reliability, DP156 should be configured as a "Display for EXO controllers". When using this application, the display will work even if there is no communication with the main computer. The main computer will also continue to work even if it fails to communicate with the panel computer. This application is advantageous in small projects, since a hardware key is not required for projects with less than 75 I/Os.

The panel computer can also be configured as an "EXO4 additional main computer". This application is selected when maximum performance is required for large projects. In this case, unlike the application Display for EXO controllers, the main computer will not be able to reach controllers connected to DP156 when the main computer fails to communicate with the panel computer.

DP156 can also be configured as an "EXO4 main computer". This application gives full EXO4 functionality. Both as an EXO4 main computer and an EXO4 additional main computer, a maximum of 10 controllers can be connected to the panel computer.

When the panel computer is configured as a "TCP/IP master", it is used to transfer values between up to 10 TCP/IP controllers in a system.

The application cases are described in detail in the manual "Panel and embedded computers in EXO systems".

### Configuration
In order to make settings in Windows, create shortcuts etc., we recommend that you connect a USB keyboard to DP156. Connecting a computer mouse will also simplify configuration.

In order to install EXO4, you must be connected to a network from which the installation files can be reached using the same access information for the network as for the panel computer. Otherwise, you can use a USB flash drive or similar.
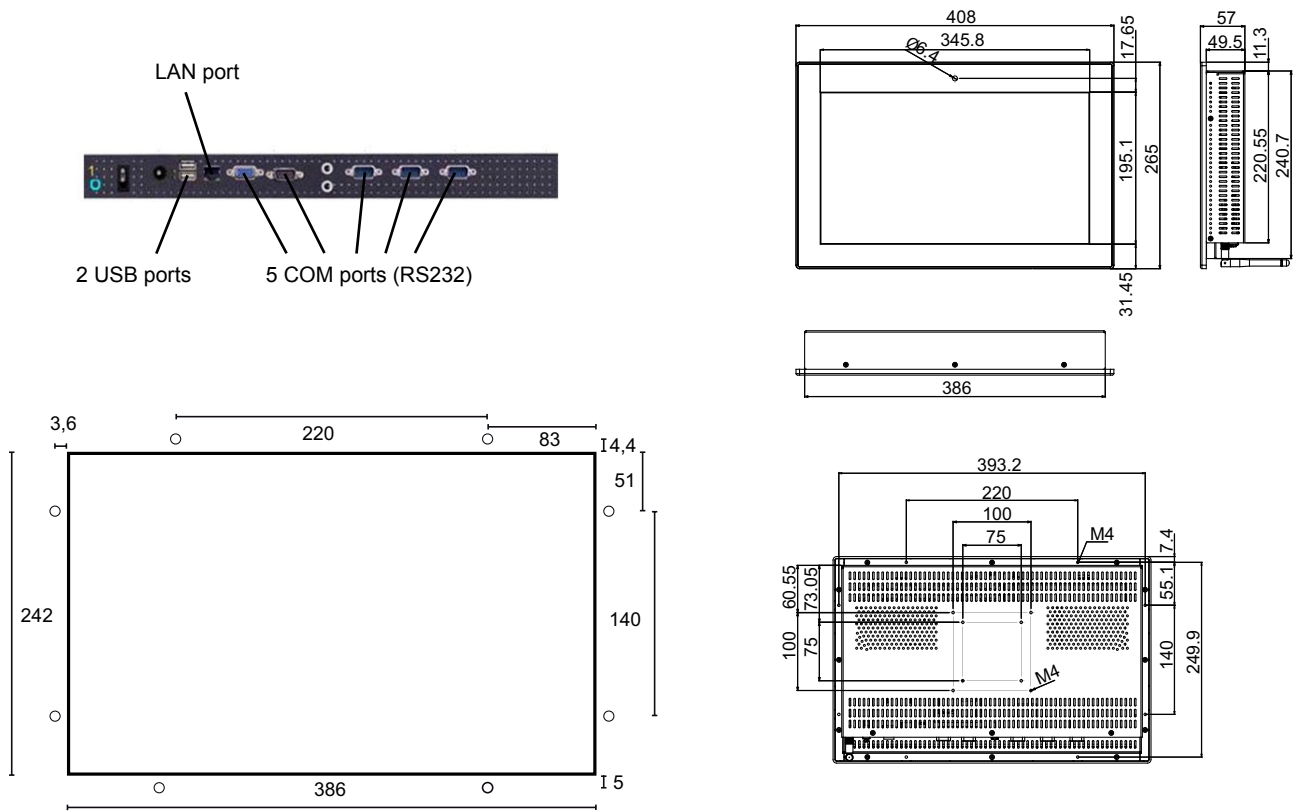
Since the monitor keyboard cannot be used when Windows is not running, the panel computer must be configured to automatically log on to Windows.

For proper function, the resolution of the DP156 monitor should be 1366 x 768.

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## Technical data

| | |
|---|---|
| Monitor size | 15.6" |
| Resolution | 1366 x 768 |
| Brightness | 220 cd/m² |
| Contrast ratio | 500:1 |
| Number of colours | 262 K |
| Backlight | LED |
| CPU type | Intel Atom N270 1.6 GHz |
| Flash memory | 8 GB |
| RAM | 1 GB |
| Ports | 5 x COM ports (RS232), 2 x USB ports, 1 x LAN port (Realtek RLT8111C 10/100/1000 Mbps) |
| Operating temperature | 0...50°C |
| Relative operating humidity | 5...90 % at 39°C, non-condensing |
| Protection class | IP65 |
| Material | Front panel in plastics and aluminium |
| Mounting | Cabinet mounting, VESA 75 / 100 (screws included) |
| Supply voltage | Power supply unit for 12 V DC (2.5 A) included in the delivery |
| Weight | 2 kg |
| External dimensions, computer | 49.5 x 385.8 x 240.7 mm |
| External dimensions, display | 7.5 x 408 x 265 mm |
| CE | The product conforms with the requirements of European EMC standard CENELEC 2004/108/EC. It carries the CE and RoHS marks. |

## Wiring and dimensions

LAN port

2 USB ports    5 COM ports (RS232)

408
345.8
17.65
195.1
265
31.45
386

57
49.5
11.3
220.55
240.7

3,6
220
83
4,4
51
242
140
386
5

*Mounting holes*

393.2
220
100
75
M4
7.4
60.55
73.05
100
75
55.1
140
249.9
M4

Measurements in mm.

*Power supply unit*

## Product documentation

| Document | Type |
|---|---|
| Panel and embedded computers in EXO systems | Manual with information about application cases for DP156 |

The product documentation is available on Regin's ftp-server. It is intended for our system customers, who need to share files with us, e.g. at technical support. Contact one of our sales engineers for access via your own password.

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