Top 100
Global
Innovator
for 10 years

# eXP2 Series

## Human Machine Interface




LS ELECTRIC




eXP2-04
4.3"

eXP2-07
7"

## Human Machine Interface

new

# eXP2 Series

**Performance Enhancement**
(eXP → eXP2)




Project Downloading




Screen Change




Booting




Graphic Rendering

※ The above may vary depending on the conditions of use.




eXP2-10
10.1"

eXP2-05
5.6"

## More Convenient Control

User-oriented interface, more powerful performance, fast screen changes and high levels of responsiveness.

**Quick and Fast**
Fast screen change & booting

**Cortex A8**
800MHz CPU

**Communication Driver**
Various comm. drivers (continuously being added)

**Micro SD Card Support**
Advanced model only for 7" & 10"

**Compatibility**
Compatible with eXP (panel cut, project file, etc.)

**LCD Life Time**
Increased by 2.5 times

# New Features

## Portrait Mode



- Vertical mounting is available
- Setting in XP-Builder: [COMMON]-[Project Property Setting]

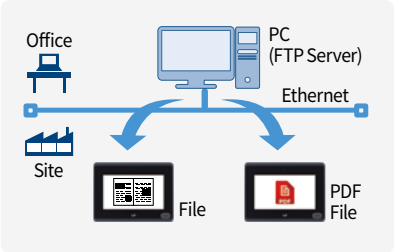
| Item | eXP | eXP2 |
|---|---|---|
| Vertical Mode | eXP20 Only | O |
| PDF Viewer | X | O |
| FTP Client | X | O |
| VNC Client | X | O |

## PDF Viewer




- PDF files can be displayed on XGT Panel.
- In the event of an alarm, the content of the alarm's trouble shooting can be checked on site as a PDF file.
- PDF files on an FTP server can be displayed using a PDF viewer object.

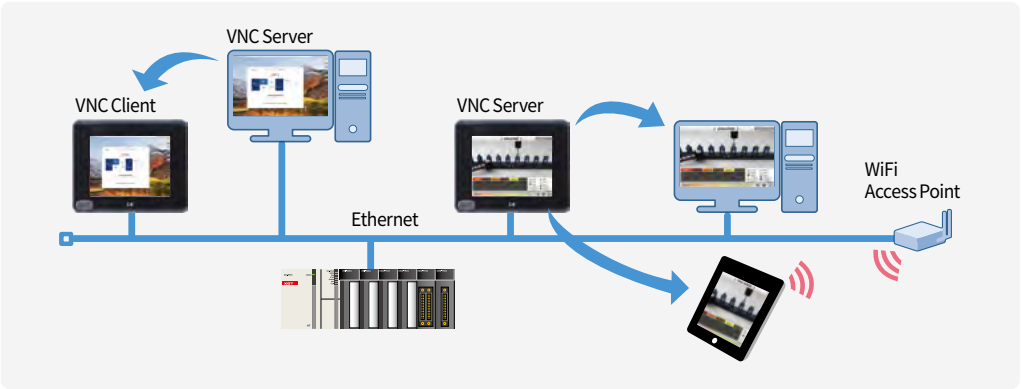
## FTP Client




- FTP client is an object that can connect to the FTP server, display the list of files and directories on the FTP server, and download the selected file.
- PDF files on an FTP server can be displayed using a PDF viewer object.

## VNC Viewer

- Remotely monitoring PC or HMI using VNC Viewer is available
  - Download VNC server to HMI using XP-Manager.
  - Install a universal VNC server on your PC.(Ultra VNC, Real VNC, etc.)
- Add 'VNC Viewer' object to the project screen.



# Model Naming & Hardware Description

## Model Naming

| eXP | 2 | – | 04 | 0 | 0 | D | – | EX |
|---|---|---|---|---|---|---|---|---|
| ❶ | ❷ | | ❸ | ❹ | ❺ | ❻ | | ❼ |

| ❶ Series |
|---|
| efficient XGT Panel |

| ❷ Generation |
|---|
| 2nd Generation |

| ❸ LCD Size | |
|---|---|
| 04 | 10.9cm (4.3") |
| 05 | 14.2cm (5.6") |
| 07 | 17.8cm (7") |
| 10 | 25.5cm (10.1") |

| ❹ OS Type | |
|---|---|
| 0 | WinCE 7.0(Core) |
| 1 | WinCE 7.0(Pro) |

| ❺ Communication/SD Memory | |
|---|---|
| 0 | Standard Model: RS-232C/RS-485/RS-422/Ethernet |
| 1 | Advanced Model: RS-232C/RS-485/RS-422/Ethernet/Micro SD *1) |
| 2 | Basic Model: RS-232C/RS-485/RS-422 *2) |

| ❻ Power | |
|---|---|
| D | DC24V |

| ❼ Certifications | |
|---|---|
| EX | IP66, UL Type 4X |

*1) Advanced Model: 07/10 model only
*2) Basic Model: 05/07 model only

## Hardware Description




❶ **Front Screen**
- Analog Touch panel

❷ **Power Status LED**
- HMI status indication (On: Blue)

❸ **Panel Mounting Hole**
- Mounting bracket

❹ **USB Device**
- Logging/Recipe/Screen data backup
- Download/Upload project
- Upload project file
- XGT Panel update

❺ **Micro SD Card**
- Backup of data such as alarm/logging/recipe and storage of screen data
- Send/Receive project data, Send XP-runtime

❻ **USB Host**
- USB memory connection: logging/recipe/screen data backup
- Project data transfer/backup
- User interface connection: mouse/keyboard
- Printer connection

❼ **Battery Cover**
- Reset switch, Backup battery, Setting switch
  * Please refer to user's manual.

❽ **Power Terminal**
- Power input (24VDC)

❾ **Ethernet Terminal**
- Ethernet : 10Base-T/ 100Base-TX
  1) Send project data
  2) Receive backup data and project file
  3) Send XP-Runtime
  4) PLC/Control device communication

❿ **COM3 Connector**
- RS-422/485: PLC or control device communication

⓫ **COM1, COM2 Connector**
- RS-485, RS-232C: PLC or control device communication

# Specification

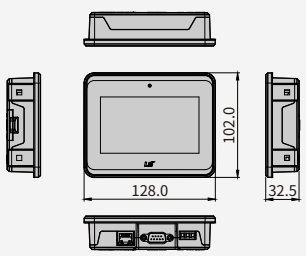




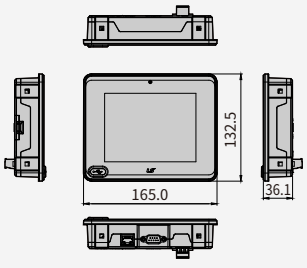
| Item | | eXP2-04□*0D | eXP2-05□*0D | eXP2-05□*2D |
|---|---|---|---|---|
| Display Type | | TFT color LCD | | |
| Screen Size | | 10.9cm (4.3") | 14.2cm (5.6") | |
| Display Resolution | | 480 x 272 Pixel | 640 x 480 Pixel | |
| Color Indication | | 24Bit Color (16.7M) | 18Bit Color (65,536) | |
| Indication Degree | | Left/Right: 60 deg.<br>Upper: 40 deg.<br>Lower: 50 deg | Left/Right: 60 deg.<br>Upper: 40 deg.<br>Lower: 60 deg. | |
| Backlight | | LED Type (Supports Backlight Auto-off Function) | | |
| Backlight Duration | | 50,000 Hours | 20,000 Hours | |
| Touch Panel | | 4-Wire Resistive, Analog | | |
| Audio Output | | Magnetic Buzzer (85dB) | | |
| Process | | 800MHz | | |
| Memory | Drawing Memory | 64MB | | |
| | Operating RAM | 512MB | | |
| | Backup RAM | 128KB | | |
| Backup Data | | Date/Hour Data, Logging/Alarm/Recipe Data and Nonvolatile Device | | |
| Battery Life | | Approx. 3 years (Operating Ambient Temperature of 50°C) | | |
| Ethernet | | 1 Channel, IEEE802.1a, 10Base-T/100Base-TX | | - |
| USB Host | | 1 Channel, USB 2.0 Host<br>(Mouse, keyboard, printer, USB flash drive, etc.) | | |
| USB Device | | - | 1 Channel, USB 2.0 Device (for Download and Upload Project) | |
| Micro SD Card | | - | - | |
| RS-485, RS-232C | | 1 Channel, RS-232C (DSUB 9/Male Type) | | |
| RS-422/485 | | 1 Channel, RS-422/485 (DSUB 9/Male Type) | | |
| Multi-language | | Up to 12 Language Simultaneously | | |
| Animation | | GIF Format is Available | | |
| Recipe | | Available | | |
| Data Logging | | Available | | |
| Script Executor | | Available | | |
| Certifications | | CE, UL(cUL), UL Type 4X, KC | CE, UL(cUL), UL Type 4X, KC | CE, UL(cUL), KC |
| Protection Standard | | IP65 Note 1) | | |
| Dimension (mm) | | 128 x 102 x 32.5 | 165 x 132.5 x 36.1 | |
| Panel Cut (mm) | | 119 x 93 | 156 x 123.5 | |
| Rated Voltage | | DC24V | | |
| Power Consumption (W) | | 4 | 5.5 | 5.5 |
| Weight (kg) | | 0.27 | 0.43 | 0.43 |

□*: 0 (WinCE 7.0 Core), 1 (WinCE 7.0 Pro)
Note 1) IP66 for UL Type 4X models.

### eXP2-04 (4.3")




### eXP2-05 (5.6")

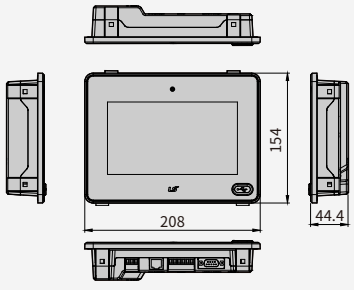




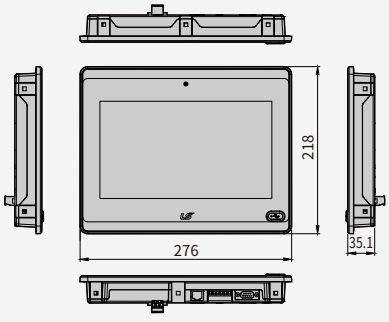


| | eXP2-07□*0D | eXP2-07□*1D | eXP2-07□*2D | eXP2-10□*0D | eXP2-10□*1D |
|---|---|---|---|---|---|
| | TFT Color LCD | | | TFT Color LCD | |
| | 17.8cm (7") | | | 25.9cm (10.1") | |
| | 800 x 480 | | | 1024 x 600 | |
| | 24Bit Color (16.7M) | | | 24Bit Color (16.7M) | |
| | Left/Right: 70 deg.<br>Upper: 50 deg.<br>Lower: 70 deg. | | | Left/Right: 70 deg.<br>Upper: 50 deg.<br>Lower: 70 deg. | |
| | LED Type (Supports Backlight Auto-off Function) | | | LED Type (Supports Backlight Auto-off Function) | |
| | 50,000 Hours | | | 30,000 Hours | |
| | 4-Wire Resistive, Analog | | | 4-Wire Resistive, Analog | |
| | Magnetic Buzzer (85dB) | | | Magnetic Buzzer (85dB) | |
| | 800MHz | | | 800MHz | |
| | 64MB | | | 64MB | |
| | 512MB | | | 512MB | |
| | 128KB | | | 128KB | |
| | Date/Hour Data, Logging/Alarm/Recipe Data and Nonvolatile Device | | | Date/Hour Data, Logging/Alarm/Recipe Data and Nonvolatile Device | |
| | Approx. 3 years (Operating Ambient Temperature of 25°C) | | | Approx. 3 years (Operating Ambient Temperature of 50°C) | |
| | 1 Channel, IEEE802.1a, 10Base-T/100Base-TX | | - | 1 Channel, IEEE802.1a, 10Base-T/100Base-TX | |
| | 1 Channel, USB 2.0 Host<br>(Mouse, keyboard, printer, USB flash drive, etc.) | | | 1 Channel, USB 2.0 Host<br>(Mouse, keyboard, printer, USB flash drive, etc.) | |
| | 1 Channel, USB 2.0 Device (for Download and Upload Project File) | | | 1 Channel, USB 2.0 Device (for Download and Upload Project File) | |
| | - | 1 Channel SDHC Class10 | - | - | 1 Channel SDHC Class10 |
| | 2 Channels, RS-485, RS-232C (DSUB 9/Male Type) | | | 2 Channels, RS-485, RS-232C (DSUB 9/Male Type) | |
| | 1 Channel, RS-422/485 Mode (Terminal Type) | | | 1 Channel, RS-422/485 Mode (Terminal Type) | |
| | Up to 12 Language Simultaneously | | | Up to 12 Language Simultaneously | |
| | GIF Format is Available | | | GIF Format is Available | |
| | Available | | | Available | |
| | Available | | | Available | |
| | Available | | | Available | |
| | CE, UL(cUL), UL Type 4X, KC | | CE, UL(cUL), KC | CE, UL(cUL), UL Type 4X, KC | |
| | IP65 Note 1) | | | IP65 Note 1) | |
| | 208 x 154 x 44.4 | | | 276 x 218 x 35.1 | |
| | 192 x 138 | | | 260 x 202 | |
| | DC24V | | | DC24V | |
| | 6 | | | 6 | |
| | 0.59 | 0.59 | 0.58 | 1.0 | 1.0 |

**eXP2-07 (7")**




**eXP2-10 (10.1")**



FUTURING SMART ENERGY

We open up a brighter future through
efficient and convenient energy solutions.



**Safety Instructions**

- For your safety, please read user's manual thoroughly before operating.
- Contact the nearest authorized service facility for examination, repair, or adjustment.
- Please contact qualified service technician when you need maintenance.
  Do not disassemble or repair by yourself!
- Any maintenance and inspection shall be performed by the personnel having expertise concerned.



- According to The WEEE Directive, please do not discard the device with your household waste.

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