

INDUSTRIAL AUTOMATION PRODUCT

6AV2124-0QC02-0AX1

SIMATIC HMI TP1500 Comfort Panel

Siemens 6AV2124-0QC02-0AX1 is a 15.4-inch SIMATIC HMI TP1500 Comfort Panel. It provides visualization, touch operation, and networked operator access for configured automation systems.

| IDENTITY      | VERIFIED VALUE            |
|---------------|---------------------------|
| Manufacturer  | Siemens                   |
| System family | SIMATIC HMI Comfort Panel |
| Part number   | 6AV2124-0QC02-0AX1        |
| Country       | Germany                   |
| HS code       | 8537101190                |

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313  
EMAIL sales13@apterpower.com  
WEBSITE www.apterpower.com



## 2

## Technical Specifications

Technical values below are limited to the named Siemens product record.

| PARAMETER              | VALUE                 |
|------------------------|-----------------------|
| Display diagonal       | 15.4 in widescreen    |
| Display technology     | TFT                   |
| Display colors         | 16,777,216            |
| Resolution             | 1280 x 800 pixels     |
| Active display area    | 331.2 x 207 mm        |
| Touch technology       | Analog resistive      |
| Mounting orientation   | Portrait or landscape |
| Maximum inclination    | 35 degrees            |
| Rated supply           | 24 V DC               |
| Permitted supply range | 19.2 to 28.8 V DC     |

| PARAMETER                      | VALUE         |
|--------------------------------|---------------|
| Rated current                  | 1.7 A         |
| Typical power consumption      | 41 W          |
| Processor                      | x86           |
| User-data memory               | 24 MB         |
| Industrial Ethernet interfaces | 2             |
| Serial interface               | 1 x RS422/485 |
| USB interfaces                 | 2 x USB 2.0   |
| Memory-card slots              | 2 x SD        |
| Backlight MTBF                 | 80000 h       |
| Backlight dimming              | 0 to 100%     |

### VERIFIED PRODUCT RECORD

| DATA GROUP                 | VERIFIED VALUE                                                  |
|----------------------------|-----------------------------------------------------------------|
| Installed host / carrier   | TIA Portal HMI project                                          |
| Companion hardware         | 24 V DC control supply                                          |
| Field connection           | PROFINET or PROFIBUS network                                    |
| Primary system function    | Displays operator graphics and accepts resistive-touch commands |
| Controlled acceptance duty | Machine operator stations                                       |

3

## System Role and Architecture

Siemens 6AV2124-0QC02-0AX1 is a 15.4-inch SIMATIC HMI TP1500 Comfort Panel. It provides visualization, touch operation, and networked operator access for configured automation systems.

**FUNCTION 1**

Displays operator graphics and accepts resistive-touch commands

**FUNCTION 2**

Exchanges process values over industrial Ethernet and serial automation networks

**FUNCTION 3**

Stores HMI project data and service archives on internal or SD memory

**FUNCTION 4**

Supports local commissioning, diagnostics, and machine operation

### Matched system components

- TIA Portal HMI project
- 24 V DC control supply
- PROFINET or PROFIBUS network
- compatible SD memory card

### SYSTEM INTEGRATION RECORD

| INTEGRATION ITEM           | DOCUMENTED ROLE                                                 |
|----------------------------|-----------------------------------------------------------------|
| Installed host / carrier   | TIA Portal HMI project                                          |
| Companion hardware         | 24 V DC control supply                                          |
| Field connection           | PROFINET or PROFIBUS network                                    |
| Primary system function    | Displays operator graphics and accepts resistive-touch commands |
| Controlled acceptance duty | Machine operator stations                                       |

## 4

## Applications and Engineering Context

**Machine operator stations**

Displays operator graphics and accepts resistive-touch commands

**Process-unit visualization**

Exchanges process values over industrial Ethernet and serial automation networks

**Production-line recipe and alarm handling**

Stores HMI project data and service archives on internal or SD memory

**Plant diagnostics and maintenance terminals**

Supports local commissioning, diagnostics, and machine operation

**TECHNICAL NOTE**

Back up the installed HMI project, verify 24 V DC polarity and interface assignments, and restore device name, addresses, communication drivers, and runtime functions before handing the panel to operators.

**MODEL-SPECIFIC ACCEPTANCE EVIDENCE**

| CHECK              | ACCEPTANCE CONDITION                                            |
|--------------------|-----------------------------------------------------------------|
| Identity           | 6AV2124-0QC02-0AX1 / 6AV2124-0QC02-0AX1 recorded                |
| Physical interface | TIA Portal HMI project                                          |
| Companion check    | 24 V DC control supply                                          |
| Functional proof   | Displays operator graphics and accepts resistive-touch commands |
| Application test   | Machine operator stations                                       |

5

## Engineering Precautions

1

Verify 6AV2124-0QC02-0AX1 and the installed project before replacement.

2

Isolate 24 V DC power and all connected signal references.

3

Back up the HMI project, recipes, archives, and security settings.

4

Protect the resistive touch surface and front seal during panel mounting.

5

Reconnect Ethernet, RS422/485, USB, and SD media to their recorded positions.

### RELATED PRODUCTS ON APTER POWER

| MODEL              | SYSTEM ROLE                         | APTER POWER PAGE                  |
|--------------------|-------------------------------------|-----------------------------------|
| 6EP1434-2BA20      | SITOP industrial power supply       | <a href="#">Open product page</a> |
| 6ES7432-1HF00-0AB0 | SIMATIC S7-400 analog output module | <a href="#">Open product page</a> |

### MANUFACTURER SOURCE RECORD

SIMATIC HMI TP1500 Comfort Panel Product Data

6AV2124-0QC02-0AX1

### APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL [sales13@apterpower.com](mailto:sales13@apterpower.com)

WEBSITE [www.apterpower.com](http://www.apterpower.com)

