

Siemens 6AV6647-0AF11-3AX0 Manual

Brand	Siemens
Product Series	Siemens
Product Type	SIMATIC HMI KTP1000 Basic Color PN

Description

6AV6647-0AF11-3AX0

SIMATIC HMI KTP1000 Basic Color PN

SIMATIC HMI KTP1000 Basic Color PN, Basic Panel, Key/touch operation, 10" TFT display, 256 colors, PROFINET interface, configurable as of WinCC flexible 2008 SP2 Compact/ WinCC Basic V10.5/ STEP 7 Basic V10.5, contains open-source software, which is provided free of charge see enclosed CD

Packaging dimensions (L x W x H)

46.20 x 33.70 x 13.50cm

Net weight

3.049kg

Manufacturer: Siemens

Product Number: 6AV6647-0AF11-3AX0

Product Type: SIMATIC HMI KTP1000 Basic Color PN

Design of display: TFT

Screen diagonal: 10.4 in

Display width: 211.2mm

Display height: 158.4mm

Number of colors: 256

Resolution (horizontal x vertical): 640 x 480 pixels

Control elements: Touch screen

Rated value (DC): 24 V

Current consumption (rated value): 0.6 A

Active power input, type: 15 W

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Processor type: RISC 32-bit

Type of memory: Flash / RAM

Memory available for user data: 2 Mbyte

show

Display specifications TFT

Screen diagonal 10.4 in

Screen width 211.2 mm

Screen height 158.4 mm

Number of colors 256

Resolution (pixels)

Horizontal image resolution 640

Vertical image resolution 480

backlight

MTBF background illumination (at 25 °C) 50000 h

Adjustable background lighting No

Operating elements

keyboard font

Number of function keys 8

Buttons with LED No

System button No

Number input and letter input

Numeric keypad Yes; On-screen keyboard

Alphanumeric keyboard Yes; On-screen keyboard

touch screen

Touch screen yes

Installation method/installation

Can be installed vertically (portrait format) No

Can be installed in landscape orientation (landscape format) Yes

Supply voltage

Voltage type of power supply DC

Rating (DC) 24 V

Permissible range, lower limit (DC) 19.2 V

Permissible range, upper limit (DC) 28.8 V

Input current

Current consumption (rated value) 0.6 A

Switch-on current A²s 0.2 A²·s

Power

Power consumption, typical 15 W

Processor

Processor type

X86 No

ARM Yes; RISC 32-bit

memory

Flash memory Yes

RAM is

Free memory for user data 2 Mbyte

Output type

sound

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Buzzer Yes
Speaker No
time
clock
Hardware clock (real-time clock) No
Software clock Yes
Cache No
Syncable Yes
interface
Number of RS 485 interfaces 0
Number of USB interfaces 0
Number of SD card slots 0
Number of parallel interfaces 0
Number of 20 mA interfaces (TTY) 0
Number of RS 232 interfaces 0
Number of RS 422 interfaces 0
Number of other interfaces 0
With software interface No
Industrial Ethernet
Number of industrial Ethernet interfaces 1
Industrial Ethernet status LED 2
agreement
PROFINET Yes
PROFINET IO No
Support IRT No
PROFIBUS No
MPI No
Protocol (Ethernet)
TCP/IP Yes
DHCP Yes
SNMP Yes
DCP is
LLDP is
network properties
HTTP No
HTML No
Other agreements
CAN No
MODBUS Yes ; Modicon (MODBUS TCP/IP)
EtherNet/IP Yes
Alarm/Diagnostics/Status Information
diagnostic information
Diagnostic information is readable No
Protection level and protection category
IP (front) IP65
Includes type 4, front yes
Included type 4x front Yes
IP (rear) IP20
standards, licenses, certificates
CE Marking Yes

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KC License Yes

cULus is

RCM (former C-TICK) Yes

ship building license

Germanischer Lloyd (GL) is

American Bureau of Shipping (ABS) is

Bureau Veritas (BV) Yes

Det Norske Veritas (DNV) Yes

Lloyds Register of Shipping (LRS) Yes

Nippon Kaiji Kyokai (level NK) is

Polski Rejestr Statkow (PRS) No

Use in explosion-proof areas

ATEX Zone 2 No

ATEX Zone 22 No

cULus Class I Division 1 No

cULus Class I Division 2, Class 2 No

FM Class I Level 2 No

Environmental requirements

Installation position vertical

Maximum permissible tilt angle without external ventilation 35°

operating temperature

Operation (vertical installation)

In vertical installation, min. 0 °C

In vertical installation, max. 50 °C

Operation (maximum tilt angle)

At maximum tilt angle, min. 0 °C

At maximum tilt angle, max. 40 °C

Storage/transport temperature

Min -20 °C

maximum 60 °C

relative air humidity

Maximum relative air humidity 90 %

operating system

Windows CE No

Proprietary Yes

Runnable for configured operating systems

Others No

Configuration

Message display Yes

With messaging system (including buffer and transponder) Yes

Process value display (output) Yes

Definable process value (input) Yes

Program management Yes

Configuration software

STEP 7 Basic (TIA Portal) Yes ; via integrated WinCC Basic (TIA Portal)

STEP 7 Professional (TIA Portal) Yes ; via integrated WinCC Basic (TIA Portal)

WinCC flexible Compact Yes

WinCC flexible Standard Yes

WinCC flexible Advanced Yes

WinCC Basic (TIA Portal) Yes

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WinCC Comfort (TIA Portal) Yes
WinCC Advanced (TIA Portal) Yes
WinCC Professional (TIA Portal) Yes
Messaging system
Number of message categories 32
Number of bit messages 200
Number of simulated messages 15
System message HMI Yes
Number of characters per message 80
Number of process values per message 8
Message indicator Yes
message buffer
Number of entries 256
Circular buffer Yes
Reserved Yes
Maintenance-free Yes
Program management
Recipe quantity 5
Data set per recipe 20
Entries per dataset 20
Capacity of internal recipe memory 40 kbyte
Recipe memory can be expanded No
variable
Number of variables per device 500
Number of variables per image 80
critical value is
Multiplexing Yes
Structure No
Array Yes
picture
Number of configurable pictures 50
Permanent window/default Yes
Global picture Yes
character set
keyboard font
American (English) Yes
character set
Tahoma is
Arial No
Courier New No
WinCC Standard Edition Yes
Image language Yes
Fonts can be scaled as desired No
Downloadable additional character sets No
Transfer (upload/download)
MPI/PROFIBUS DP No
USB No
Ethernet Yes
Use external storage media No
process connection
S7-1200 Yes

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S7-1500 Yes
S7-200 Yes
S7-300/400 Yes
LOGO! Yes
WinAC is
SINUMERIK No
SIMOTION No
Allen Bradley (EtherNet/IP) Yes
Allen Bradley (DF1) No
Mitsubishi (MC TCP/IP) Yes
Mitsubishi (FX) No
OMRON (FINS TCP) No
OMRON (LINK/Multilink) No
Modicon (Modbus TCP/IP) Yes
Modicon (Modbus) Yes

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