SIEMENS

Data sheet **6AV6646-1BA12-0AA1**

SIMATIC ITC1200 V3, industrial thin client, 12" widescreen TFT display, capacitive touch sensor, supported protocols: RDP, VNC, SmartServer HTML5 and others, standard design, built-in unit

General information	
Product type designation	12" multi-touch

Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	12.1 in
Display width	261 mm
Display height	163 mm
Number of colors	16 777 216
Resolution (pixels)	
● Horizontal image resolution	1 280 pixel
● Vertical image resolution	800 pixel
General features	
● non-reflective and tempered mineral glass screen	Yes
Backlighting	
● MTBF backlighting (at 25 °C)	50 000 h; At 25°C
● Backlight dimmable	Yes; LED, dimmable

Control elements	
Touch operation	
● Design as multi-touch screen	Yes; Projective-capacitive
● Monitor keyboard	Yes

Installation type/mounting	
Design	Built-in unit
Front mounting	Yes
Built-in unit	Yes
maximum permitted forward tilt angle from vertical	35°
maximum permitted backward tilt angle from vertical	35°

Supply voltage	
Type of supply voltage	24 V DC
Rated value (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)	1.3 A
Current consumption, max.	1.6 A
Starting current inrush I²t	0.5 A²·s

Power	
Active power input, typ.	31.2 W

Interfaces	
Number of industrial Ethernet interfaces	2; 2 ports (switch)
Number of USB interfaces	4; on rear
Connection for keyboard/mouse	USB
Industrial Ethernet	
● Transmission rate, max.	1 000 Mbit/s

Protocols	
Protocols (Ethernet)	
● TCP/IP	Yes
● DHCP	Yes
● SNMP	Yes
● DCP	Yes
● LLDP	Yes

WEB characteristics	
● HTTP	Yes
● HTTPS	Yes
● HTML	Yes; HTML5
● XML	Yes
● CSS	Yes
● JavaScript	Yes
● Java VM	No
Protocols (terminal link)	
● Sm@rtServer	Yes
● RDP	Yes
● VNC viewer	Yes
● Citrix	Yes
● SINUMERIK	No; Available soon
Degree and class of protection	
IP (at the front)	IP65
NEMA (front)	
● Enclosure Type 4x at the front	Yes
● Enclosure Type 12 at the front	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
FM approval	No; Available soon
RCM (formerly C-TICK)	Yes
KC approval	No; Available soon
EAC (formerly Gost-R)	No; Available soon
Use in hazardous areas	
● ATEX Zone 2	No; Available soon
● ATEX Zone 22	No; Available soon
● IECEx Zone 2	No; Available soon
● IECEx Zone 22	No; Available soon
● cULus Class I Zone 2, Division 2	No; Available soon
● FM Class I Division 2	No; Available soon
Marine approval	
● Germanischer Lloyd (GL)	No
● American Bureau of Shipping (ABS)	No
● Bureau Veritas (BV)	No
● Det Norske Veritas (DNV)	No
● Korean Register of Shipping (KRS)	No
● Lloyds Register of Shipping (LRS)	No
● Nippon Kaiji Kyokai (Class NK)	No
● Polski Rejestr Statkow (PRS)	No
● Chinese Classification Society (CCS)	No
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	50 °C
Ambient temperature during storage/transportation	
● min.	-20 °C
● max.	60 °C
Relative humidity	
● Operation, max.	90 %; no condensation
Vibrations	
● Vibration load in operation	10 m/s²
● Vibration load during transport/storage	10 m/s²
Shock testing	
● Shock load during operation	150 m/s²
● shock acceleration during storage/transport	150 m/s²
Software	
Web browser	Yes; HTML5, CSS

PDF reader	Yes
configuration / header	
Configuration	
● Local	Yes
● Remote	Yes; Via web page
Languages	
Online languages	
● Number of online/runtime languages	2; german / english
Peripherals/Options	
USB memory	Yes; USB storage medium can be connected
Mechanics/material	
Enclosure material (front)	
● Aluminum	Yes
Dimensions	
Width of the housing front	326 mm
Height of housing front	237 mm
Mounting cutout, width	310 mm
Mounting cutout, height	221 mm
Overall depth	72 mm
Weights	
Weight (without packaging)	3.7 kg

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