SIEMENS

Data sheet 6AV6646-1BA18-0NA0

spare part SIMATIC ITC1900 V3, industrial thin client, 19" widescreen TFT display, capacitive touch sensor, supported protocols: RDP, VNC, SmartServer HTML5 and others neutral design, built-in unit



General information	
Product type designation	ITC1900 V3
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	18.5 in; 19"
Display width	409.8 mm
Display height	230.4 mm
Number of colors	16 777 216
Resolution (pixels)	
● Image resolution	1 366 x 768
● Horizontal image resolution	1 366 pixel
● Vertical image resolution	768 pixel
General features	
● non-reflective and tempered mineral glass screen	Yes
● Detachable from computer unit	100 m
Backlighting	
● Type of backlighting	LED, dimmable
● MTBF backlighting (at 25 °C)	50 000 h; At 25°C
● Backlight dimmable	Yes
Control elements	
Control elements	multi-touch screen
Touch operation	
● Design as touch screen	Yes
● Design as multi-touch screen	Yes; Projective-capacitive
● Monitor keyboard	Yes
Installation type/mounting	
Design	Built-in unit
Front mounting	Yes
Support arm mounting	No
Stand mounting	No
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	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	

© Copyright Plcbin

Current consumption (rated value)	1.4 A
Starting current inrush I²t	0.5 A²·s
Power	
Active power input, typ.	34 W
Power loss	
Power loss, typ.	34 W
Interfaces	
Number of industrial Ethernet interfaces	2; 2 ports (switch)
Number of USB interfaces	4; on rear
USB on the rear	Yes; 2x onboard
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
● HTML	Yes; HTML5
● XML	Yes
● CSS	Yes
● JavaScript	Yes
Protocols (terminal link)	
● Sm@rtServer	Yes
● RDP	Yes
● VNC viewer	Yes
● Citrix	No
● SINUMERIK	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	NEMA 4x (when installed)
● Enclosure Type 4 at the front	Yes
● Enclosure Type 4x at the front	Yes
● Enclosure Type 12 at the front	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
EAC (formerly Gost-R)	Yes
Use in hazardous areas	
● ATEX Zone 2	Yes
● ATEX Zone 22	Yes
● IECEx Zone 2	Yes
● IECEx Zone 22	Yes
● cULus Class I Zone 2, Division 2	Yes
● FM Class I Division 2	Yes
Marine approval	
● Germanischer Lloyd (GL)	No; in preparation
● American Bureau of Shipping (ABS)	No; in preparation
● Bureau Veritas (BV)	No; in preparation
● Det Norske Veritas (DNV)	No; in preparation
● Korean Register of Shipping (KRS)	No

© Copyright Plcbin

● Lloyds Register of Shipping (LRS)	No; in preparation
● Nippon Kaiji Kyokai (Class NK)	No; in preparation
● Polski Rejestr Statkow (PRS)	No
● Chinese Classification Society (CCS)	No
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	45 °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	
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	464 mm
Height of housing front	294 mm
Mounting cutout, width	448 mm
Mounting cutout, height	278 mm
mounting depth	73 mm
Weights	
Weight (without packaging)	6.1 kg
Classifications	

	Version	Classification
eClass	16	19-20-01-03
eClass	14	19-20-01-03
eClass	12	19-20-01-03
eClass	9.1	19-20-01-03
eClass	9	19-20-01-03
eClass	8	27-24-23-01
eClass	7.1	27-24-23-01
eClass	6	27-24-23-01
ETIM	10	EC001414
ETIM	9	EC001414
ETIM	8	EC001414
ETIM	7	EC001414

© Copyright Plcbin

IDEA	4	6607
UNSPSC	15	43-21-15-06

Approvals / Certificates

General Product Approval





Manufacturer Declaration

Miscellaneous





General Product Approval





China RoHS

EMV



For use in hazardous locations





For use in hazardous locations

CCC-Ex



Miscellaneous



last modified: 7/1/2025

© Copyright Plcbin