Display
TFT/PANxxxIS Series
Infrared touch panel display

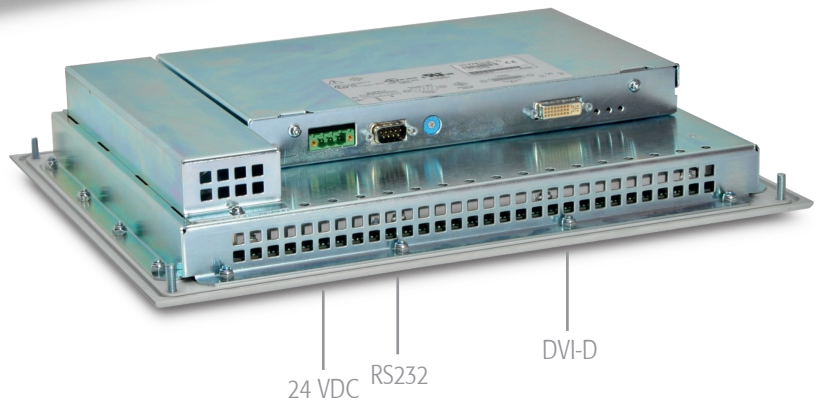Infrared touch

Safety glass

IP65 front

TFT/PANxxxIS-F1

A robust industrial touch panel display with a 7.5, 10.4, 12.1, 15 or 19 inch display, infrared touch and chemical resistant front. This version comes with a standard DVI and RS232 Serial connection for the mouse compatible IR touch signal. The fan less devices are well suited for heavy industrial use. Designed with IP65 protection at the front.

- **24/7 continuous operation**
- **Maintenance free**
- **Scratch and break resistant safety glass**
- **Rugged and no moving parts**
- **ATEX zone 22**

24 VDC   RS232   DVI-D

Windows Embedded Standard
Windows Embedded CE 6.0
Debian 5.0

CE
c UL us

Product Highlights

Single link DVI-D
24V power supply
RS232 touch interface
ESD-protection on all interfaces
Long term available

Product Feature

10.4, 12.1, 15 or 19 inch display
Infrared touch technology
Scratch and break resistant safety glass
Brightness control (Software)
No active cooling required

Markets / Applications

Industrial Automation
Cleantech
Railway industry
Transportation and vehicle construction
PLC replacement
Maritime

Your partner for reliable embedded PC and display solutions.

	Order Code	TFT/PAN104IS-F1	TFT/PAN121IS-F1	TFT/PAN150IS-F1	TFT/PAN190IS-F1
TFT Display					
Screen size [inch]		10.4	12.1	15	19
Resolution [pixel]		800 x 600 (SVGA)	800 x 600 (SVGA)	1024 x 768 (XGA)	1280 x 1024 (SXGA)
Brightness [cd/m²]		400	450	400	250
Brightness 450...1000 cd/m [1]		optional	optional	optional	optional
Contrast ratio 450:1		•	•	•	•
Viewing angle		H-120° V-90°	H-130° V-110°	H-140° V-110°	H-140° V-110°
Color performance 256k		•	•	•	•
Touch Screen					
Infrared touch technology		•	•	•	•
Scratch and break resistant		•	•	•	•
Transmittance >90%		•	•	•	•
Peripherals					
Single Link Digital-Video-Interface (DVI-D)		•	•	•	•
Software brightness control		•	•	•	•
Communication Interfaces					
RS232 ESD protected (DSUB9)		•	•	•	•
Technical Data					
Dimensions W x H x D [mm]		345 x 260 x 63	361 x 279 x 63	427 x 332 x 63	512 x 420 x 69
Net weight [gram]		4200	4700	6100	9000
Input Voltage 20...30VDC non-isolated		•	•	•	•
Current consumption typ. [mA] @ 24V without Add-Ins		416	833	958	1208
Power consumption typ. [Watt] @ 24V without Add-Ins		10	20	23	29
Environmental Conditions					
Operating temperature (ambient) 0°C to +50°C		•	•	•	•
Extended operating temperature (ambient) -30°C to +70°C [1]		opt	opt	opt	opt
Storage temperature -30°C to +80°C [1]		opt	opt	opt	opt
Humidity 20 to 90% non condensing		•	•	•	•
Protection standard IP65 front | IP20 rear		•	•	•	•
Shock: designed to meet EN60068-2-6		•	•	•	•
Vibration: designed to meet EN60068-2-27		•	•	•	•
EMI Conformity EN-55022/55024/61000-6-2/61000-6-4		•	•	•	•
MTBF ~200 000h (22.8 years) excluding display		•	•	•	•

[1] Please contact factory for minimum order quantities