# Industrial 15" Touch Panel PC, based on PC/104 Standard

# TFT/HMI150-06F1

- Auto brightness control
- Presence detector
- Heating system
- Extended temperature
- Rugged, no rotating parts
- Special mounting options

## Features

### System

- 15 inch TFT-Display
- Resistive Touch Screen
- Industrial x86 Processor
- DDR-SDRAM on board soldered
- Socket for CompactFlash
- IDE Interface (1 master, 1 slave)
- Ethernet, USB, PS/2, COM
- Industrial HDD optional
- Lifespan optimised

### Industrial Specific

- Watchdog
- Real Time Clock
- Temperature supervisor
- Flash BIOS (pre-configurable)
- Socket for battery buffered Memory
- ESD-protection on all interfaces
- No active cooling required
- 24V Power Supply
- Long-term available

### Operating Systems

- Windows XP embedded
- Windows NT embedded
- Windows CE
- Linux
- VxWorks
- OS-9
- MS-DOS, RTX-DOS 16/32
- RTKernel 16/32
- others on request

### Extended Temperature

- Heating system to enlarge operating temperature range
- -20°C to +60°C full operating (ambient)
- Autonomous controller for temperature management of each individual device

### Brightness Control

- Auto brightness control (sensors)
- 2% to 100% full-range brightness regulation/control
- Brightness Potentiometer optional
- Programmable maximum backlight current for increased lifetime

### Further Functions

- Presence detector with auto brightness dimming
- Multicolor OSD (on screen display) with running time information, internal temperature information, brightness and presence sensor setting, etc.

### System Solutions

- HMI - Touch Panel PC
- PAN - Touch Panel

### TFT Case "Easy Mounting"

- Laminated IP65 front
- Stainless steel enclosure
- Service and connector cover
- Front side mount
- Back side mount (front fitting)
- 49mm front mount depth

### Add-Ons and Optional Products

- Industrial Harddisk Drive
- Brightness Potentiometer
- Mounting Frame
- Power Supply 230Vac to 24Vdc

Subjects to alteration
15.10.2007/V1.0

Swiss Design
Swiss Quality

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## Specifications and Order Information

| | TFT/HMI150-06F1 | TFT/PAN150-06S1 |
|---|---|---|
| Standard Temperature Range | | |
| Extended Temperature Range | • | • |
| **Processor / Performance** | | |
| AMD Geode LX700@0.8W 433 MHz, 874 MIPS [1] | | |
| AMD Geode LX800@0.9W 500 MHz, 1000 MIPS | • | |
| AMD Geode LX900@1.5W 600 MHz, 1200 MIPS [1] | | |
| **Memory** | | |
| 128 kB L1 Cache (64kB instruction / 64kB data) | • | |
| 128 kB L2 Cache | • | |
| 128 MB DDR333 SDRAM [1] | | |
| 256 MB DDR400 SDRAM | • | |
| 512 MB DDR400 SDRAM [1] | | |
| 1,44MB ROM Floppy emulation | • | |
| 32 Pin Socket for SRAM,NV-RAM, EEPROM[2], DiskOnChip[2] | • | |
| Socket for CompactFlash IDE Mode (Typ-1) | • | |
| Hard Disk Drive Unit | optional | |
| **TFT Display** | | |
| Size | 15 inch | 15 inch |
| Resolution | 1024 x 768 | 1024 x 768 |
| Brigthness (includig touch screen) | 330cd/m$^2$ | 330cd/m2 |
| Contrast | 400:1 | 400:1 |
| Viewing Angle | H-75/75° V-60/50° | H-75/75° V-60/50° |
| **Touch Screen** | | |
| Touch Screen Technology | analog 8-wire resistive | analog 8-wire resistive |
| Linearity | <1.5% error | <1.5% error |
| Single Point Activations | 1'000'000 | 1'000'000 |
| Chemical and Break resistance | • | • |
| Transmittance | 73% | 73% |
| **Peripherals** | | |
| XGA Graphic Controller | • | |
| VGA-Interface | | 1 |
| IDE Interface Standard (1 Master, 1 Slave) | • | |
| Keyboard PS/2 | 1 | |
| Touch/Mouse PS/2 | 1 | 1 |
| PC/104 Bus Interface [3] | • | |
| Real Time Clock PC compatible | • | |
| Watchdog | • | |
| Temperature supervisor | • | • |
| Audio Port (AC97) [3] | • | |
| Brigthness Potentiometer | optional | optional |
| **Communication Interfaces** | | |
| USB Version 2.0 (high or full speed) | 2 | |
| Ethernet 10/100 Mbit (INTEL82551) | 1 | |
| RS232 ESD protected | 2 | |
| **Technical Data** | | |
| Dimensions w385 x h310 x d55 mm (without HDD Cover) | • | • |
| Input Voltage nom. 24V (20.0 ... 30.0 V) | • | • |
| Power Consumption typ. in Watt @ 24V | 31 | 25 |
| Power Consumption max. in Watt @ 24V | 56 | 45 |
| Operating Temperature (ambient) -20° ~ +60° C | • | • |
| Storage Temperature -20° ~ +80° C | • | • |
| Shock: designed to meet EN60068-2-27 | • | • |
| Vibration: designed to meet EN60068-2-6 | • | • |
| EMI-Conformity EN-55022/55024/61000-6-2/61000-6-4 | • | • |
| **User Documentation** | | |
| System: DOC/TFT_HMI150-E | • | • |
| CPU: DOC/IPC_NETIPC6-E.pdf | • | |
| TFT Board: DOC/TFT_GPHMI-E | • | • |

[1] Please contact factory for minimum order quantity information
[2] For DiskOnChip, EEPROM support please contact factory
[3] Board connector (internal)
[4] Second RS232 Interface at board connector (internal)