

ePanel-mgx

Mobile Embedded Flat Panel PC



- Ideal suitable for warehouse management, indoor visual units, in-seat-video, ...
- Ultra flat form factor (max. 7mm), single side populated
- For direct installation behind a TFT display
- Low power consumption (< 7W@12V)</p>
- > Proven x86 platform with extensive software support
- Prepared for wireless LAN/Internet, Bluetooth connections via PC-CARD-Slot

ePanel-mgx

Product Overview

Do you need an ultraflat single board computer to be mounted directly behind a flat panel display? ePanel-mgx is a complete, single side populated PC with a maximum height of 7mm, based on SC1200@ 266 MHz CPU. A wide range of software is available for this proven x86 platform. In addition to the very low power consumption (<7W@12V) the high number of interfaces is remarkable. With this, systems can be built without any additional engineering efforts.

... always a Jump ahead!

Technical Data

CPU National Geode SC1200@266 MHz

Ethernet 100 MBit Ethernet

USB

Video NTSC/Pal video input, TV output

Touch screen 4/8 wire supported

matrix controller

PCMCIA interface on board

> for Bluetooth up to 100m, Wireless LAN, CAN, etc.

Power supply wide range DC (8 to 28 V)

Smart-Battery backup supported **Battery**

CF-Socket

flexible I/O adapter solution

Dimensions 140 x 180 x 7 mm

Flatpanel interface TTL on board

LVDS on board

Mobile Panel-PCs Typ. applications

> In-Seat-Video In-Door-Systems

PC-Card Adapter Single PC-Card or Cardbus Slot, hot removal/insertion, 5V/3.3V PC-Card and 3.3V Cardbus support

Secondary IDE

Compact Flash adapter True IDE mode Primary channel Boot drive

Video In/Out connector 45 pin 0.5mm flatfoil connector

CVBS / SVHS / RGB video output

Battery connector

Connector for Smart Battery Chemistry independent charger on board 3A max charging current 18V max charging voltage Charging independent of board power Power monitoring through integrated SMBus Automatic switchover to DC input

Power Supply

Input voltage range 8V - 28V DC, all voltages are generated on board (1.8, 3.3, 5 and 12V), Automatic switchover to battery supply

Backlight connector-

Matrix keypad connector

max. 8x8 matrix keypad

PC keyboard emulation

no extra driver needed

Floppy connector

Standard 7 pin connector Backlight supply generated on board 12V@ 500mA or 5V@ 500mA selectable Backlight dimming control voltage OV-5V Dimming control by software

Touchscreen connector

4/8 wire resistive touchscreen, 2 button inputs for mouse button emulation, relative mode without drivers, absolute mode with drivers, parallel operation of

PS2 mouse and touchpanel

MICHELL STREET, STREET

Standard Port connector

50 pin 0.5mm flatfoil connector, board/PS2 mouse, 1x serial (TTL), 3x USB, 1x Irda, 1x 100MBit 1x parallel (bidirectional) Ethernet, Status LEDs, Power/

up to 16 CVBS video inputs, up to 8 SVHS inputs up to 4 RGB inputs, any combination possible

KAB-FLEX32-Interface

32 pin 0.5mm flatfoil connector 1x18 bit digital interface For VGA and SVGA TFT panels Power sequencing onboard 5/3.3 V power supply selectable

JILI-Interface 40 pin 0.5mm flatfoil connector Single channel LVDS interface For TFT panels up to XGA resolution Power sequencing on JILI adapter

VGA/Sound connector

40 pin 0.5mm flatfoil connector Standard VGA signals DDC support 2x Line in, 1x Microphone in 1x Line out, Backup battery

Secondary port connector

32 pin 0.5mm flatfoil connector 1x serial (TTL)

Ordering Information	PartNo.	Description
	22201	ePanel-mgx
	22202	ePanel-mgx (no video in)
	22221	I/O Adapter
	22224	TV-Video Adapter
	60903	Starterkit

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