

HMI-641S

Mini HMI PC with 6.0" VGA Color STN LCD Display



Introduction

The slim PC HMI-641S comes fully equipped with a VGA STN LCD display. When combined with the touchscreen, it becomes a very user-friendly interactive interface for the end user. Being Windows CE compliant, the HMI-641S becomes an extremely compact HMI platform. This product features an all-in-one 486 PC board, on-board VGA, two COM ports (RS-232 and RS-232/422/485), 10/100Base-T Ethernet, CompactFlash™ adapter, external expansion slot for 16-bit PC/104 and touchscreen. With FCC Class A, and CE certifications, the HMI-641S is suitable for industrial and transportation applications.

Specifications

- **Construction:** plastic molding with optional metal PC/104 expansion cover
- **CPU and Core Logic:** STPC Client 66 MHz, this is equivalent to a 80486 CPU
- **BIOS:** 256 KB Flash memory
- **RAM:** 32 MB EDO RAM on board
- **Disk Drive Housing:** supports one CompactFlash™ adapter
- **VGA:** C&T69000 chipset on board with 2 MB DRAM, embedded panel resolution up to 1024 x 768 @ 64 K colors
- **Built-in Ethernet (LAN):** RTL-8139 10/100Base-T interface
- **Multi-mode Parallel Port:** configured to LPT1, LPT2, LPT3 or disabled. supports SPP/EPP/ECP, D-SUB 25-pin connector.
- **Serial Ports:** one serial RS-232 port, one serial RS-232/422/485 port (DIP switch settings)
- **PS/2 Keyboard/mouse Connector:** mini-DIN keyboard connector
- **HDD (optional):** supports up to two EIDE devices, auto-detect BIOS
- **Expansion Slot:** supports up to two cascaded 16-bit PC/104 cards with +5 V and +12 V only
- **Watchdog Timer:** adjustable period up to 62 seconds
- **Dimensions (W x H x D):** 197.5 x 142.8 x 63.4 mm (7.76" x 5.61" x 2.49")
- **Weight:** 1.5 kg (3.3 lbs)



LCD Display

- **Display Type:** STN color dot matrix type LCD
- **Size:** 6.0"
- **Max Resolution/color:** 640 x 480 @ 256 color
- **Dot Size:** 0.043 x 0.619 (mm)
- **Luminance:** 70 cd/m²
- **Viewing Angle:** +/- 45° (H), -20°, +35°(V)
- **Response Time:** 250 ms
- **Backlight:** one CFL tube

Power Supply

- **Output Rating:** 20 W
- **Input Voltage:** 18 ~ 30 V_{DC}
- **Output Voltage:** +5 V @ 4 A, +12 V @ 0.5 A

Touchscreen

- **Type:** 4-wire resistive
- **Resolution:** 1024 x 1024
- **Light Transmission:** 82%
- **Interface:** PS/2
- **Software Driver:** supports Windows CE
- **Lifetime:** 3 million touches

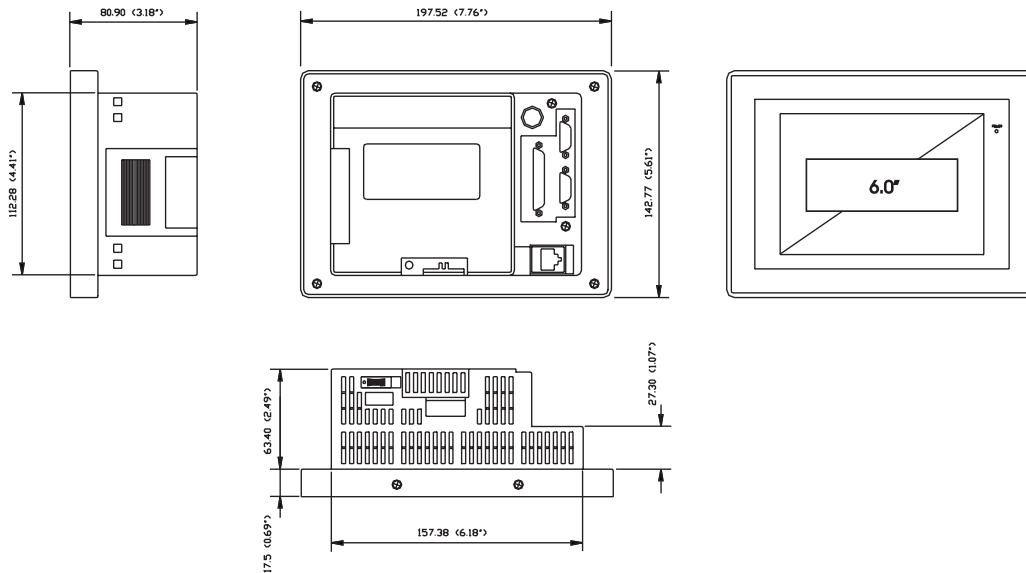
Environmental Specifications

- **Operating Temperature:** 0° ~ 45° C (32° ~ 113° F)
- **Relative Humidity:** 0% ~ 95% RH (non-condensing)
- **Safety:** meets UL/CSA
- **FCC Class A, CE approved**
- **Vibration:** 10 ~ 18 Hz, 1.5 mm peak-to-peak displacement
18 ~ 500 Hz, 1 G acceleration
- **Water Resistance:** front panel meets NEMA 4 or IP 65

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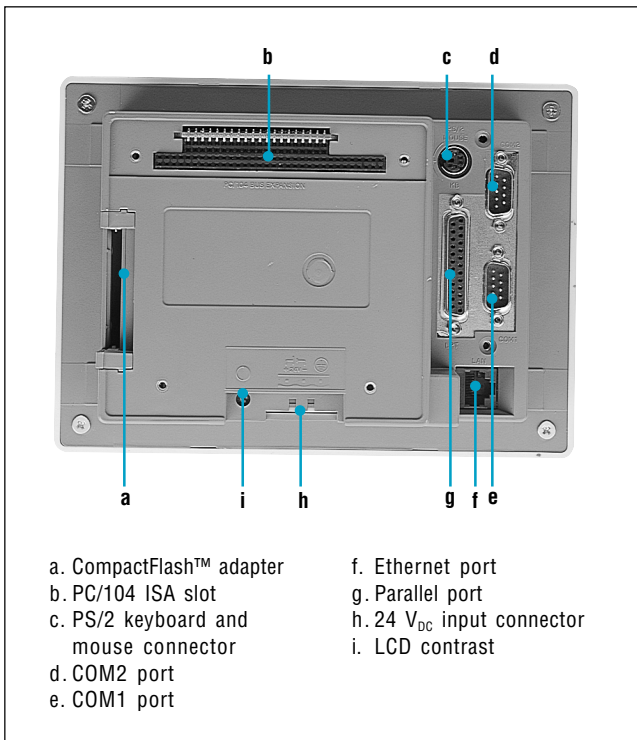
Dimensions

Unit: mm



Cut-out dimension: 158 mm x 113 mm

I/O Arrangement



Ordering Information

- ❑ **HMI-641S**
486DX-66 PC with 6.0" STN LCD, 32 MB DRAM on board
- ❑ **HMI-641S-CE**
HMI-641S with Windows CE OS (HMI-641S + 16 MB CompactFlash™ card + Windows CE OS)

Optional Peripherals

- ❑ **PS-DC24-50**
50 watts 24V_{DC} output, 110/220 V_{AC} 50/60 Hz input power adapter
- ❑ **PPC-EXP-57**
Metal cover for 2-layer 16-bit PC/104 expansion device
- ❑ **CF-ADP-57**
Removable adapter for CompactFlash™ memory card

WebLink
WebOT 1

IPPC &
AWS 2

TPC 3

FPM 4

IPC 5

UNO-
2000 6

ICOM 7

DA&C 8

cPCI 9

ADAM-
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