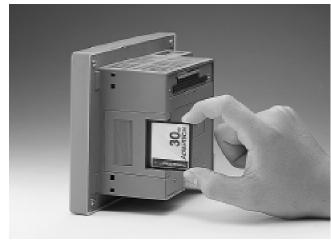
HMI-640S

Mini HMI PC with 6.0" VGA Color STN LCD Display





Introduction

The slim PC HMI-640S 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-640S 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-640S 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 msBacklight: one CFL tube

Power Supply

Output rating: 25 WInput voltage: 18 ~ 30 Vpc

Output voltage: +5 V @ 4 A, +12 V @ 0.5 A

Touchscreen

Type: 4-wire resistiveResolution: 1024 x 1024

• Light transmission: 75%

Interface: PS/2

· Software driver: Supports WINDOWS CE

• Lifetime: 3 million touches

Environmental Specifications

• Operating temperature: 0 \sim 45 °C (32 \sim 113 °F)

• Relative humidity: 0 ~ 95% RH (non-condensing),

· Safety: Meets UL/CSA

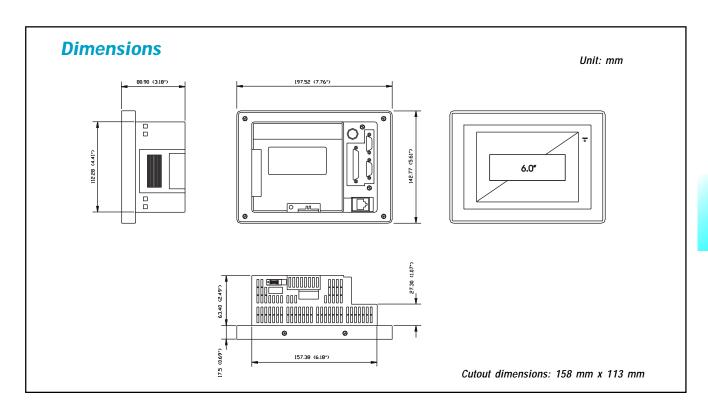
· FCC Class A, CE approved

• Vibration: 10 \sim 18 Hz, 1.5 mm peak-to-peak displacement 18 \sim 500 Hz, 1 G acceleration

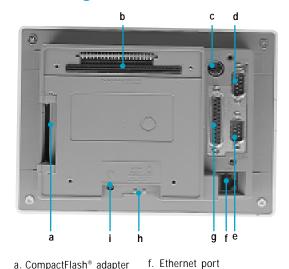
• Water resistance: Front panel meets NEMA 4 or IP 65

C € FCC

PC-based Industrial Workstations







g. Parallel port

i. LCD contrast

h. 24 Vpc input connector

- a. CompactFlash® adapter
- b. PC/104 ISA slot
- c. PS/2 keyboard and mouse connector
- d. COM2 port
- e. COM1 port

Application S/W Package

Advantech provides two application software packages by which users can easily build up their own graphic interface within several hours.

- · ICONICS Pocket GENESIS CE
- · Advantech GeniDAQ CE

Ordering Information

☐ HMI-640S:

486DX-66 PC with 6.0" STN LCD, 16MB EDO RAM on board

☐ HMI-640S-GNI:

Windows CE turn-key solution pack; HMI-640S with Advantech HMI S/W package (HMI-640S + 16MB CompactFlash™ card + Advantech HMI S/W package + Windows CE OS)

☐ HMI-640S-IC0:

Windows CE turn-key solution pack; HMI-640S with ICONICS Pocket GENESIS CE (HMI-640S + 16MB CompactFlash™ card + Pocket GENESIS CE + Windows CE OS)

□ PCLS-ICO-WCE:

ICONICS Pocket GENESIS Windows CE Development Software (Including GraphWorX, TrendWorX and AlarmWorX)

□ PCLS-GNI-WCE:

GeniDAQ Windows CE Development Edition (Including Task Designer and Display Designer)

- □ PS-DC24-50: 50 Watt DC 24 V Output Power Supply for HMI-640
- □ PCD-100A-0016: 16 MB CompactFlash™ Memory Card
- ☐ PCD-100A-0032: 32 MB CompactFlash™ Memory Card

PC-based Industrial Workstations