



INTEGRATED DISPLAY WORKSTATION

With the military demanding less size and weight and higher performance and flexibility, the ID Workstation delivers unprecedented processing power and display resolution to advanced C4Isr application in one compact chassis.

The ID Workstation is an integrated large-format, high-definition display and workstation-class computer. Available in 20.1" and 21.3" sizes, the display subsystem offers high definition 1600 x 1200 native pixel resolution and supports a mix of up to 4 additional RGB or NTSC input feeds.

Highlights

- 20.1" and 21.3" sizes with 1600 x 1200 resolution
- Up to 4 Picture-in-Picture video inserts
- Independently controllable input feed, screen position, scaled image size, and chroma keying
- SoftMenus for advanced display control
- 2 PCI card expansion slots
- 1 PCIExpress 16x Graphics card slot
- 1 PCIExpress 1x slot
- Audio on board

Each input feed is independently controllable with respect to screen position, scaled image size, and chroma keying. A built in graphical SoftMenus software package enables programmable control of all display parameters.

A Z Micro-designed embedded baseboard hosts a long-life COM Express module that provides a seamless upgrade path to the latest processor technology.

- Option for PS2
- Z Micro baseboard hosts COM Express module and a selection of latest processor modules
- Front accessible cardbus slot
- 2 Gigabit Ethernet ports
- 3 USB ports front
- 3 USB ports rear
- Optional front removable TranzPak 2 rugged hard drive
- Optional touch screen (20.1")



Z Microsystems

SPECIFICATIONS

ID Workstation

LCD Panel

Size: 20.1" & 21.3" diagonal
 Native Pixels: 1600 x 1200
 Color Palette: 16.7 million
 Controls: Operator Control Panel or GUI SoftMenus
 Picture-in-Picture inserts: up to 4, RGB or NTSC/PAL
 Touch Screen option (20.1")

Independently controllable:
 Input feed
 Screen position
 Scaled image size
 Chroma keying
 SoftMenus: for programmable control of display parameters

Power

Power Supply: 100-240 VAC, 50-60 Hz, 400Hz

Cabling

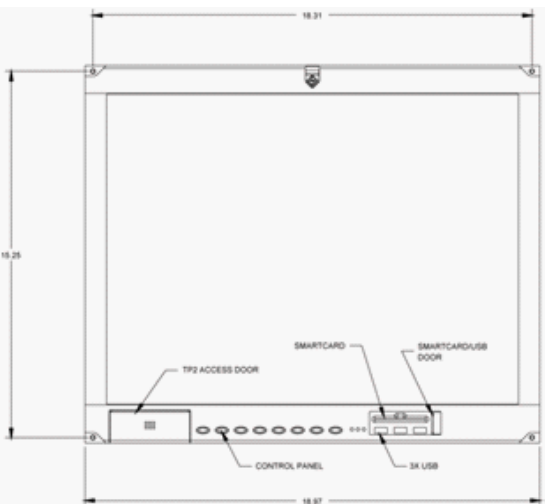
RS232 Serial: 6' 9-pin DSUB provided
 Power Cable: 6' cable, MIL-5015 Circular Connect

Physical

Size: 15.65"H x 19.0"W x 8.1"D
 Weight: Approx. 26 lbs. (without optional PiPs or mounting kit)

Environmental*

Operating Temp: 0° to + 50° Celsius
 Non-operating Temp: -25° to + 60° Celsius
 Humidity: 5% to 95% Non condensing (Design Goal)
 Non-operating Altitude: Up to 40,000 ft. (Design Goal)
 Operating Altitude: Up to 15,000 ft. (Design Goal)
 Vibration: MIL-STD-167
 Shock: MIL-STD-180E 50 g's
 Sand and Dust: Front Bezel 5.5 MPH for 25 min, method 510.3, MIL-STD-810E (TBD) (Design Goal)
 Drip Proof Front Bezel: MIL-STD-810E, method 506.3, Pro 1
 Fungus: Non Nutrients/contaminants



Reliability

MTBF: tbd
 MTTR: tbd

Regulatory

Safety: UL 60950 (used as a design goal)
 EMI: (call factory to discuss requirements)

Quality/Workmanship

ISO 9001: 2000 and applicable section of MIL-HDBK-454

Embedded Image Controllers

Z Micro UXGA Controller
 Z Micro Image Insert Controller

Embedded Computer

Z Micro Baseboard
 COM Express Module: Pentium M processor
 Memory: 512MB Standard (2GB Max)
 Onboard Audio
 Onboard 2 x Gigabit Ethernet
 Onboard Intel Graphics 2048x1536
 3 x Rear USB 2.0,
 3 x Front USB 2.0
 PS2 Option
 1 x Front SmartCard Slot
 1 x Rear Serial RS-232 COM Port
 2 x 32-bit PCI Card Expansion Slots
 1 x PCIExpress 16x Graphics Slot
 1 x PCIExpress 1x Slot
 Embedded 2.5" SATA drive
 Optional front removable TranzPak 2 rugged hard drive

*Environments listed as Design Goals have not been tested. Limits are based on results of similar display products.

