Product Description

The CIM is a computer/display combination packaged to withstand harsh environments. Together with a data acquisition subsystem the CIM provides complete monitoring and control capabilities in a low profile, low cost package. Several CIM units can be connected over a LAN to provide multiple operator workstations.

FEATURES
• Rugged Processor & Flat Panel Display
• Embedded Processor
• Runs Windows Software
• Sunlight Readable
• Panel Mounted
• LAN Interface
• Low Cost

PROCESSOR OPTIONS
• Pentium Class, PC-104

DISPLAY
• Color LCD, transflective, 640x480 (standard) 10.4” diagonal
PHYSICAL CHARACTERISTICS

• Weight: 16 pounds
• Display Type: Color, active matrix TFT LCD, transflective
• User Control: External switch actuated backlight control
• Power:
  Input Voltage: 24 Vdc (12 – 32 Vdc)
  Consumption: Less than 5 Amps
  Cooling: Natural convection, no fans
• Display Characteristics:
  Screen Size: 10.4-inch diagonal
  Viewing Area: 8.3”W X 6.2”H
  Viewing Angle: -45°/+45° horizontal, -35°/+45° vertical
  Resolution: 640 X 480 pixels
  Pixel Size: .33 X .33 mm
  Brightness: Sunlight readable
  Screen Refresh: 60 Hz or more at all brightness levels

COMPUTER CHARACTERISTICS

• Up to 1G byte onboard SDRAM
• Stackable PC104 expansion bus
• Runs Microsoft Windows Software
• Ethernet LAN interface
• Solid State Disk – Maximum reliability (up to 16GB)
• (4) – Serial ports (2 RS-232, 2 RS-232 or RS422/485)
• Parallel port
• Keyboard utility port
• 2 USB Ports

OPTIONS

• Infrared touch panel
• Extreme cold temperature
• Ruggedized keypad Mouse
• High brightness
• Mounting kits
• Special options on request

ENVIRONMENTAL CHARACTERISTICS

• Temperature:
  Operating: -25°C to +70°C
  Non-Operating: -50°C to +85°C
• Humidity:
  100% condensing (at front panel)
  95% non-condensing from rear
• Altitude:
  35,000 feet operating
  50,000 feet non-operating
• Shock:
  Operating: 30g, 11 Msec., ½ Sine Wave
  Non-Operating: 40g, 11 Msec., ½ Sine Wave
• Vibration:
  MIL-STD-167 (4-50 Hz)
  2g’s RMS random
  (50-2000 Hz)
• EMI/EMC:
  Tested to MIL-STD-461D
• EMP protection
• Sand and Dust:
  MIL-STD-810D, Method 510.3, Procedures1 and 2 (at front panel)
• Fungus:
  MIL-STD-454/67, no fungus nutrient material
• Explosive Atmosphere:
  MIL-STD-810D, Method 506.3, Procedure 1 (at front panel)
• Salt Fog:
  MIL-STD-810D, Method 509.3, Procedure 1
• Wind and Rain:
  MIL-STD-810D, Method 506.3, Procedure 1 (at front panel)
• Display Reliability:
  MTBF: 20,000 hours at 25°C
  Operating Life: 10 years without major overhaul
• Maintainability:
  MTTR: Less than 20 minutes
• Quality Assurance: Complies with MIL-I-45208 and ISO-9000