Model 8301 Series

Flat Panel Display Chassis

FEATURES

- *Choice of Flat Panel Display Type*
- *250W Power Supply*
- *Optional DC Power*
- *Seven ISA Expansion Slots*
- *Four 3½" Drive Bays*

DESCRIPTION

The 8301 series provides a built-in flat panel display for operator interface requirements in limited space applications. The 8301 series chassis is 19" wide but only 8.75" high and 13.1" deep. The flat panel display may be your choice of monochrome LCD, passive matrix (STN) color LCD or active matrix (TFT) color LCD. All displays are easily interfaced with the included flat panel display controller and offer full 640 x 480 resolution.

The removable media drives and system control functions (i.e. reset switch, on/off switch, and speaker volume adjustment) are located behind a lockable access door. The door also has a simple slam latch, so locking the door is at your discretion. Flat panel displays that offer controls for brightness and contrast have the controls available behind the locking front panel door.

SPECIFICATIONS

Mounting

Rack

Bus Architecture

ISA Passive

Number of Slots

Eight Total, six available
One Used by Flat Panel Controller
One Used by CPU Board
Five Full Length, 2 Half Length Open

POWER SUPPLY

AC Input

250W Output

104-250VAC, 47-63Hz, Switch Selectable
+5VDC @ 25A
+12VDC @9.5/14A
-5VDC @ 1A
-12VDC @ 1A
Note: -5V and -12V combined not to exceed 13.5W total

DC Input

300W Output

48VDC Mains
+5VDC @ 35A
+12VDC @ 8A/10A Pk
-5VDC @ 0.5A
-12VDC @ 2A

Note: Power output cannot exceed listed P/S capacity. Minimum loading is required for proper regulation. For minimal configuration testing, load boards are available from Industrial Computer Source.

Cooling Fans

24CFM in Power Supply Module
45CFM in Card Cage, 30ppi Filter

Disk Drive Capacity

Two 3½" at Front Panel
Two 3½" Vibration Dampened Internal

Keyboard Connection

Side Panel and Front Panel Behind Locking Door

Front Panel Indicators

Fan Status, Temperature Status, Disk Activity, Power Supply Status

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SPECIFICATIONS CONT.

Front Panel Controls

On/Off, Reset, Volume Adjust, and Backlight
Power Switch
Backlight intensity adjustment for TFT displays
behind lockable access door

Display

MC - Mono LCD

7.56" x 5.67", 9.4"D
(192.0 x 144.0mm, 239mm Diagonal)
Sharp model LM64K83 Transflective
640 x 480 pel Resolution
64 up to 256 Gray Shade
Black on White

SC - STN Passive Matrix Color

8.43" x 6.35", 10.4"D
(214.1 x 161.3mm, 264mm Diagonal)
Sharp model LM64C35P
222k Colors
640 x 480 pel Resolution

TC - TFT Active Matrix Color

8.32 x 6.24, 10.4"D
(211.3 x 158.5mm, 264mm Diagonal)
Sharp model LQ10D321
256k Colors
640 x 480 pel Resolution

Dimensions (W x H x D)

19" x 8.72" x 13.1"
(483 x 221.5 x 333mm)

Weight

28.6lb (12.98kg)

Finish

Chassis

0.048" Steel, Gold Zinc Plate

Front Panel

0.100" Steel, painted

Paint Color

Cardinal Paint, #8103-44705
Gray, medium texture
Water based

OPERATING ENVIRONMENT

Temperature

10º to 40ºC

Humidity

8 to 90% R.H.N.C.

STORAGE ENVIRONMENT

Temperature

-25º to +60ºC

MTBF

Power Supply

59,000 P.O.H. - AC Supply
110,000 P.O.H. - DC Supply

Flat Panel Display

50,000 P.O.H. - MC; 10,000 P.O.H. Backlight
MTBF
50,000 P.O.H. - SC; 10,000 P.O.H. Backlight
MTBF
50,000 P.O.H. - TC; 15,000 P.O.H. Backlight
MTBF

Agency Approvals (AC only)

FCC Class A
UL Recognized Component
CE Compliance 73/23/EEC, EMC 89/336/EEC

Note: Specific model's agency approvals are noted in the
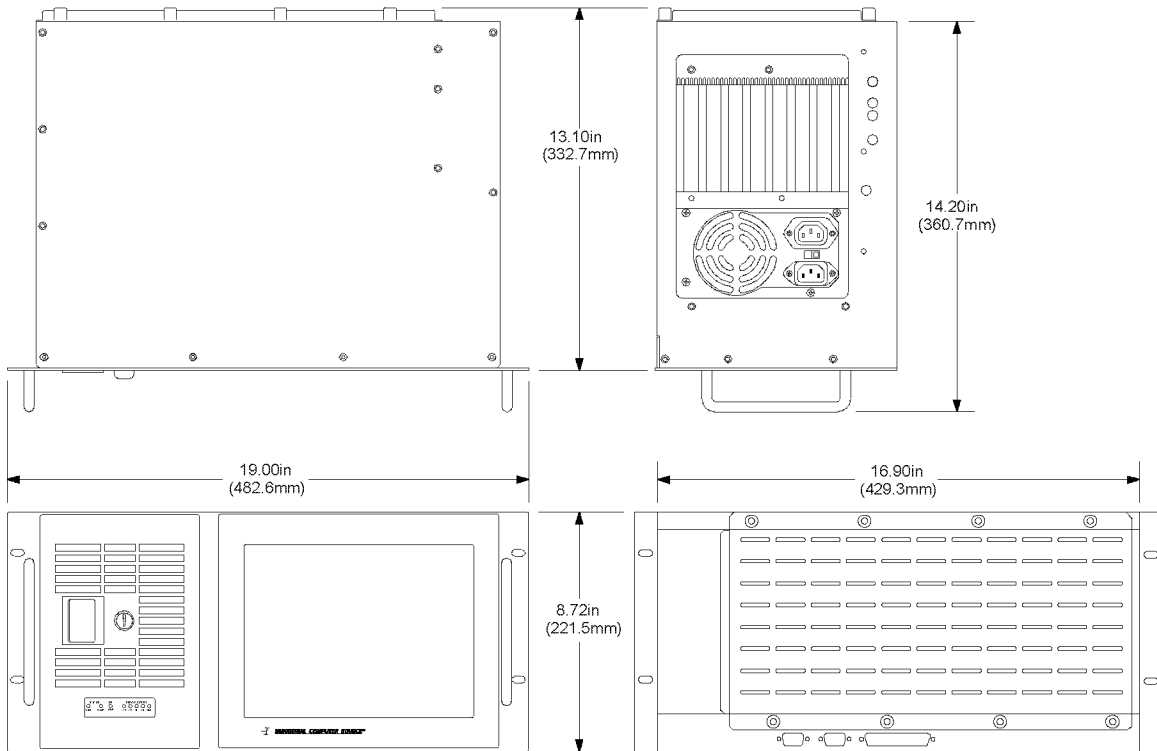ordering guide.

Model 8301 Right View

Model 8301 Open View

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DIMENSIONAL DRAWINGS

Model 8301 Top View

Model 8301 Side View

13.10in
(332.7mm)

14.20in
(360.7mm)

19.00in
(482.6mm)

16.90in
(429.3mm)

8.72in
(221.5mm)

Model 8301 Front View

Model 8301 Rear View

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8301 -[Insert Display Type Chosen Here]-[Insert The Power Supply Option Chosen Here]

Base model includes: 250W, 120/220VAC power supply, cooling fan, and flat panel controller with interface harness, and all necessary power supplies for the selected flat panel display type. Select one display type. Selection of alternate power supply options replaces the standard AC power supply.

DISPLAY TYPE

Option Description

MC Monochrome, Transflective LCD
640 x 480, 64 gray shade with backlight suitable for indoor or bright ambient light applications

SC Color, Passive Matrix LCD
640 x 480, 226k color

TC Color, Active Matrix LCD
640 x 480, 262k color

POWER SUPPLY (250W, 104-250VAC STANDARD*)

Option Description

D4 300W, 48VDC Mains Power Supply

** FCC Part A
UL Recognized Component
CE Compliance 73/23/EEC, EMC 89/336/EEC

Example: 8301-MC-D4
8 slot Monochrome Display Chassis, 300W DC Supply