

AMB-2020 (Open Frame Series)

PANEL PCs



IP65 Certified

◀ **AMB-2020**
Open Frame 12.1" Front Panel
+ ACS-2300 Control Box

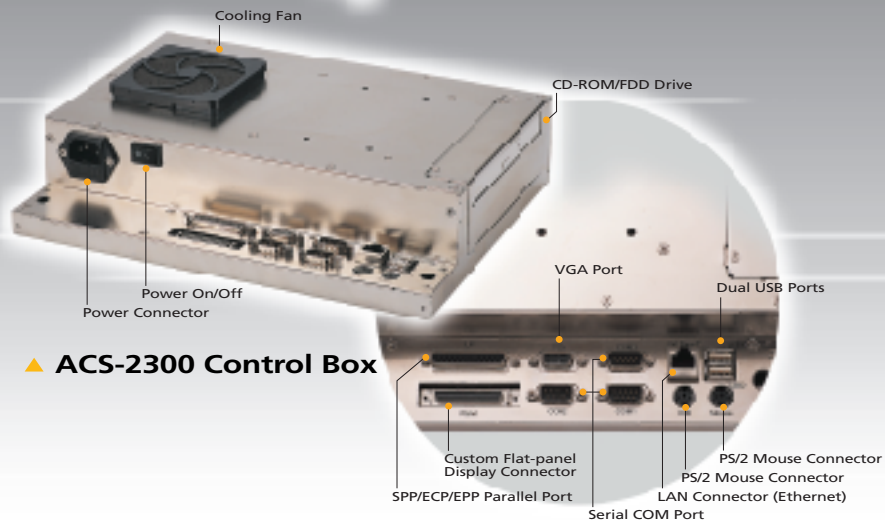


▲ **Optional Aluminum Frame**

AMB-2000 (Close Frame Series)



◀ **AMB-2000**
10.4" LCD + ACS-2300 Control Box



▲ **ACS-2300 Control Box**

AMB-2000/2020 series

Features

AMB-2000 series

- 10.4" VGA color TFT LCD display
- Plastic front panel and heavy-duty steel chassis
- All-in-one SBC, onboard NS Geode GXm 233MHz
- Four 16C550 RS-232C ports; one RS-232C port can also be set as RS-422/485
- Disk drive space for CD-ROM, FDD and HDD
- Supports DiskOnChip and DiskOnModule
- Resistive touchscreen (optional)
- Rotatable Mounting mechanism (optional)
- Note : Audio jacks are not in I/O ports even though OS will detect the device and need the driver

Features

AMB-2020 series

- 12.1" SVGA color TFT LCD display
- Heavy-duty steel chassis
- Front panel with frame has certified IP65
- All-in-one SBC, onboard NS Geode GXm 233MHz
- Four 16C550 RS-232C ports; one RS-232C port can also be set as RS-422/485
- Disk drive space for CD-ROM, FDD and HDD
- Supports DiskOnChip and DiskOnModule
- Adjustment-panel on the rear panel
- Aluminum front bezel (optional)
- Resistive touchscreen (optional)
- Rotatable Mounting mechanism (optional)
- Note : Audio jacks are not in I/O ports even though OS will detect the device and need the driver

Specifications

AMB-2000 series

- **Construction** : Heavy-duty steel chassis & plastic front panel
- **CPU** : Onboard NS Geode GXm 233MHz
- **Memory** : Supports up to 128MB
- **Display** : 10.4" VGA (640 x 480) color TFT LCD
- **LCD/CRT controller** :
NS Cx5530 Chipset
UMA supports up to 2.5MB display memory
- **Network (LAN)** : Realtek RTL8139B 10/100 Base-T Ethernet controller
- **I/O ports** :
4 serial ports : 3 x RS-232, 1 x RS-232/422/485
(One is reserved for touchscreen)
1 parallel port (supports ECP/EPP)
1 PS/2 keyboard interface
1 PS/2 mouse interface
- **Disk Drive Housing** :
3.5" HDD or
2.5" HDD and Slim FDD or
2.5" HDD and Slim CD-ROM
(3 types of housing which are not compatible)
- **USB connector** : Dual USB ports
- **Front panel color** : RAL-7035
- **Mounting** :
Panel mount, Handle mount
- **Power supply** :
Universal 70W switching power supply
- **Dimension (W x H x D)** :
330 x 252 x 95mm (13" x 10" x 3.7")
- **Carton Dimension (W x H x D)** :
479 x 384 x 254mm (18.8" x 15.1" x 10")
- **Gross weight** : 8.2Kg (18.1 lbs)

Specifications

AMB-2020 series

- **Construction** : Heavy-duty steel chassis
- **CPU** : Onboard NS Geode GXm 233MHz
- **Memory** : Supports up to 128MB
- **Display** : 12.1" SVGA (800 x 600) color TFT LCD
- **LCD/CRT controller** :
NS Cx5530 Chipset
UMA supports up to 2.5MB display memory
- **Network (LAN)** : Realtek RTL8139B 10/100 Base-T Ethernet controller
- **I/O ports** :
4 serial ports : 3 x RS-232, 1 x RS-232/422/485
(One is reserved for touchscreen)
1 parallel port (supports ECP/EPP)
1 PS/2 keyboard interface
1 PS/2 mouse interface
- **Disk Drive Housing** :
3.5" HDD or
2.5" HDD and Slim FDD or
2.5" HDD and Slim CD-ROM
(3 types of housing which are not compatible)
- **USB connector** : Dual USB ports
- **Mounting** :
Panel, Handle and Rear mount
- **Power supply** :
Universal 70W switching power supply
- **Dimension (W x H x D)** :
350 x 275 x 116mm (13.7" x 10.8" x 4.5")
- **Carton Dimension (W x H x D)** :
479 x 384 x 254mm (18.8" x 15.1" x 10")
- **Gross Weight** : 10.3Kg (22.7 lbs)

Environmental Specifications

- **Operating temperature** : 0° to 45°C (32~113°F)
- **Operating humidity** : 5 to 95%, non-condensing
- **Vibration** : Random Non-operation 2G 5-500Hz
- **Shock** : 15G peak acceleration (11 msec. duration)
- **EMC** : CE / FCC Class A

Power supply

- **Input Voltage** : 85 ~ 264V AC
- **Output Voltage** : +5V@10A, +12V@1.5A, -12V@0.3A
- **MTBF** > 200,000 Hrs per MIL - Handbook 217F
- **Safety** : UL, CUL, TUV approved
- **EMI** : FCC Class B, CISPR22B

Touchscreen (optional)

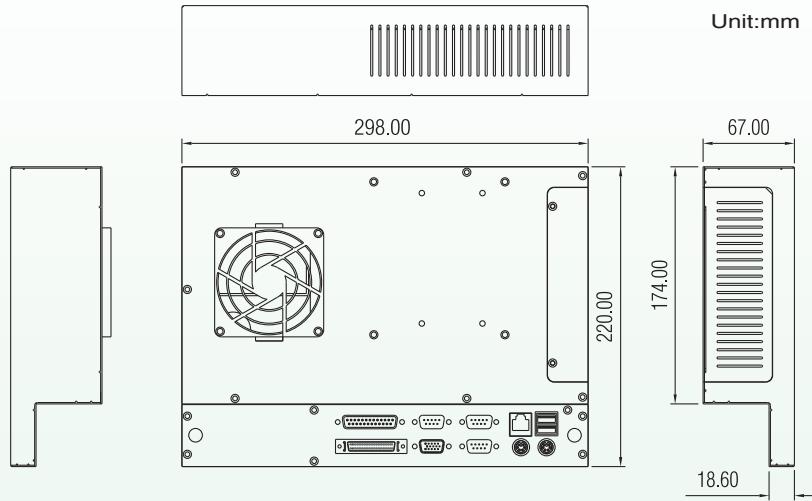
- Type** : 8-wire, analog resistive
- Resolution** : 1024 x 1024
- Light transmission** : >68% (AMB-2000), >75% (AMB-2020)
- Lifetime** : 1 million activations
- Operating pressure** : 50g average for finger, 25g average with non-metal stylus
- Controller** : RS-232 interface
- OS support** : MS DOS, Windows 98/SE, Windows ME, Windows NT4.0

LCD Specifications

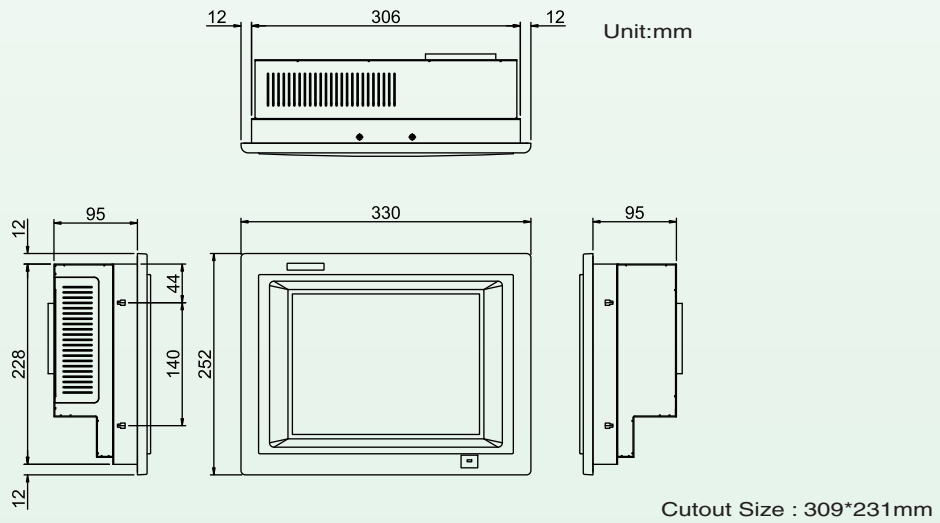
Model	AMB-2000	AMB-2020
Display type	10.4" color TFT LCD	12.1" color TFT LCD
Max. resolution	640 x 480	800 x 600
Max. colors	256K	256K
Dot size (mm)	0.33 x 0.33	0.3075 x 0.3075
Luminance (cd/m²)	250	250
Viewing angle	80° (H)	120° (H)
	45° (V)	90° (V)
Operating temperature	0° ~ 50°C (32~122°F)	0° ~ 50°C (32~122°F)
Brightness control	VR	Digital
LCD MTBF (Hrs)	50,000	50,000
Back Light MTBF(Hrs)	30,000	50,000

Dimension

ACS-2300



AMB-2000



AMB-2020

