



AVNET<sup>®</sup>  
EMBEDDED

## SIMPLE PLUS OPEN FRAME

GEO-190R15B250C1000-I-MWVM-PG020-G

[avnet.com/embedded](http://avnet.com/embedded)

**GEO-190R15B250C1000-I-MWVM-PG020-G**

*1 YEAR WARRANTY*

**19" OPEN FRAME**

*CERTIFICATIONS : CE , FCC*

## DESCRIPTION

Avnet Embedded Open Frame provides the answer, handling the entirety of the display design for you and building optimized solutions based on modular combinations of standard displays and TFT multi-touch assemblies. Delivered as a pre-assembled unit that incorporates the power supply, touch controller and other components, an Open Frame is built into a no-bezel metal housing for simple integration into your solution. All-in-one computers are a variation on this approach that add the processor, memory and other components to create a full system. Both allow for flexible mounting options to support an open-ended variety of implementations.



## Advantages

Six capabilities of Avnet integrated Open Frames and AIO that mean successful solution development

### Compatibility and Ease of Integration



- Integrate with multiple generations and standards of equipment
- Implement in environments with space, thermal and other constraints
- Customize easily for individual solution requirements

### Optimized Human-Machine Interaction



- Tailor display to size, aspect ratio and resolution needed
- Control input without external devices such as keyboard or mouse
- Support use by operators with gloved hands

### Rugged Durability and Longevity



- Offer dependability of low failure rate and long lifespan
- Operate in extremes of dust, heat, moisture, shock and vibration
- Protect displays against glare, scratches, fingerprints and vibration

### Flexible Mounting and Customizability



- Specify options such as processor, video card and interfaces
- Mount in enclosure, on equipment, on panel or using VESA
- Meet constraints with fanless install and solid state storage

### Long-Term Cost-Effectiveness



- Eliminate one-time-engineering costs to develop custom display
- Simplify ongoing maintenance with Avnet-engineered solution
- Scale system performance with upgradeability when needed

### Low Power Consumption and Noise



- Tailor power/performance balance with broad choice of components
- Reduce operating noise by eliminating exhaust fans
- Avoid pulling in dust and contaminants with passive cooling designs

## Technical Data

### GEO-190R15B250C1000-I-MWVM-PG020-G

| Panel Data             |                              |
|------------------------|------------------------------|
| Panel Size             | 19"                          |
| Display Ratio          | 16:10                        |
| Resolution             | 1440(RGB)×900 WXGA+ 89PPI    |
| Color                  | 16.7M , 73% NTSC             |
| Brightness (nits)      | 250 cd/m <sup>2</sup> (Typ.) |
| Contrast               | 1000:1 (Typ.)                |
| View Angle             | 85/85/80/80 (Typ.)(CR≥10)    |
| Response Time          | 6.5 (Typ.)(Tr+Td) ms         |
| Backlight              | WLED [13S4P]                 |
| Life (hrs)             | 50000hours                   |
| Touch Screen           |                              |
| Type                   | Capacitive touch screen      |
| Touch points           | 10 points                    |
| Touch Screen Structure | Glass+Glass(G+G);            |
| Cover glass            | 2mm;black or white           |
| Input Method           | Finger or Cap. Stylus        |
| Bonding with TFT       | Air                          |
| Surface Hardness       | 6H                           |

## Technical Data

### GEO-190R15B250C1000-I-MWVM-PG020-G

| Specification               |                                                           |
|-----------------------------|-----------------------------------------------------------|
| Material                    | Metal                                                     |
| Installation                | Desktop, wall mounted,etc                                 |
| Video input                 | PC- RGB: Format Up to 1920* 1080@60HZ                     |
|                             | PC-RGB: Color 16bit, 24bit, 32bit                         |
| Power consumption (maximum) | 25W                                                       |
| Speaker                     | 8Ω3W*2                                                    |
| OSD                         | RESOURCE/MENU/UP/DOWN/SHUT OFF                            |
| Interface                   | 1*RJ45 (For touch) ; 1*HDMI ; 1*VGA; 1*DVI                |
| Menu Language               | Multilingual                                              |
| Power Supply                | DC12~24V / 4A                                             |
| Anti vibration              | 5-19HZ/ 1.0mm amplitude; 19-200hHZ/ 1.0g acceleration     |
| Shock resistance            | 10g acceleration, 11ms period                             |
| Anti-interference           | EMI / EMC interference detection standard                 |
| Operating condition:        | Temperature -10 to +60 degrees Celsius ; Humidity:20-95%  |
| Storage condition:          | Temperature: -20 to +70 degrees Celsius; Humidity: 20-95% |
| certificate                 | CE;FCC;ROHS                                               |

# SIMPLE PLUS OPEN FRAME

## Installation method and packing list



Desktop (1)  
(aluminum alloy base)



Wall mounted



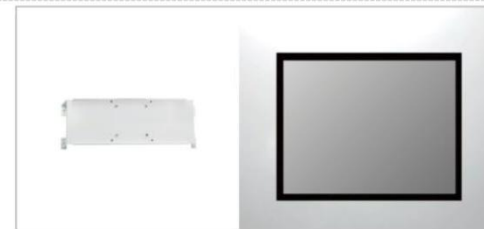
Desktop (2)



cantilever type



Suspended type



Embedded

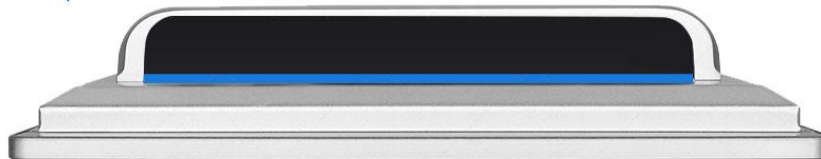
### Packing list

|             |         |
|-------------|---------|
| Monitor     | 1       |
| Adapter     | 1       |
| Power cord  | 1       |
| Manual      | 1       |
| Touch cable | 1(1.5m) |
| VGA cable   | 1(1.5m) |

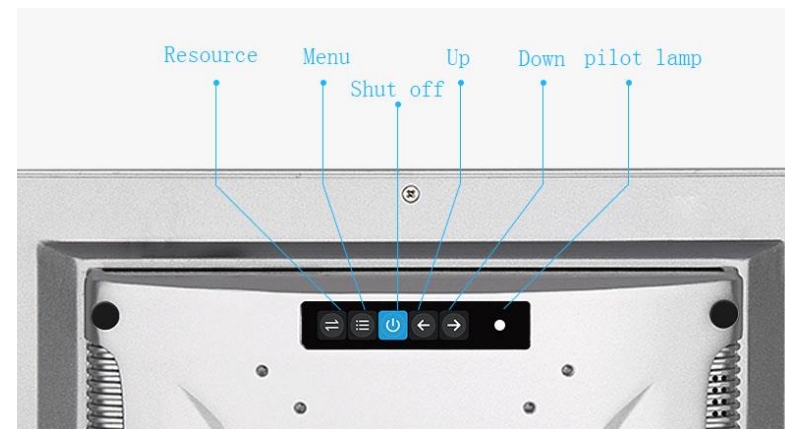
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TOP



BOTTOM



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1.RJ45 TOUCH

2.HDMI

3.DVI

4.VGA

5.Audio input

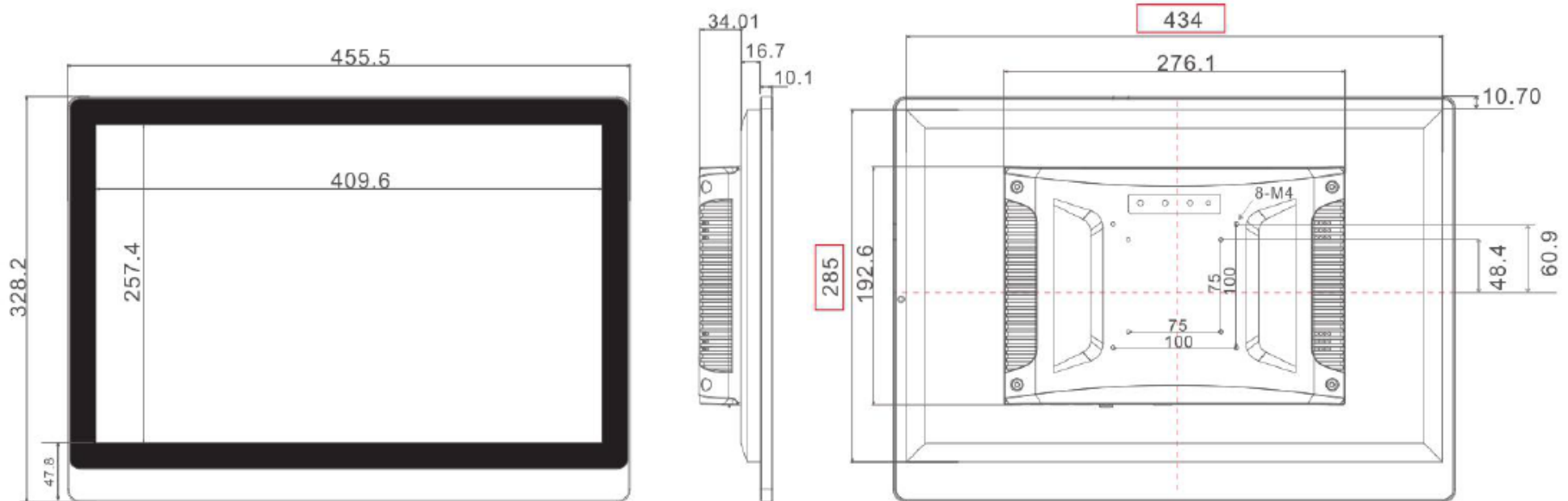
6.Audio output

7.DC 12V~24V

8.Ground post

# SIZE

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