

Ruggedized Rack mount LCD/Keyboard/Trackball GMILRP1-15 / GMILRP1-17 / GMILRP1-19 Series

Overview

- ❖ Ultra Low Profile 1U (1.75") Flip-up Display Enclosure (15", 17" 19")
- ❖ Low Profile 2U (3.50") Flip-up Display Enclosure (20")
- ❖ Optimizes Display/Keyboard Ergonomics
- ❖ Rugged All-Metal Construction
 - Ideal for Industrial and COTS Applications
 - Extended Product Life Cycle (Manufacturability)
- ❖ Custom Hinged Slides Pivot Display 90°
- ❖ Total Design Control Facilitates Customization
- ❖ Promotes Configuration Control and Extended Product Life Cycle
- ❖ LCD Displays from 15.0" to 20.1 " Diagonal Viewing Area
- ❖ Protective Glass Overlay with Sealed Gasket on Select Models
- ❖ High Performance LCD Controller
- ❖ Supports Resolutions up to 1280 x 1024 Pixels
- ❖ Supports Separate, Composite, Sync-On-Green and STANAG 3350 A S-O-G Analog Video
- ❖ Optional Support for NTSC, SECAM, PAL, S-Video and RS-170 Live Video
- ❖ Optional Support for DVI-A, DVI-D and DVI-I Analog, Digital and Integrated Video
- ❖ Separate Keyboard/Pointing Devices Available (Commercial, Industrial, Military)
- ❖ Many More Options and Accessories Available



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Display

Series	Size (Diagonal)	Viewing Area (WxH)	Resolution (Pixels)	Num. Of Colors	Luminance (Max)	Contrast (Max)	Response Time (Rise/Decay)	Horizontal Viewing Angle	Vertical Viewing Angle	Shock	Vibration
Gmilrp1-15	15"	11.97" x 8.98"	1024x 768	16.7M	280 nits	500:1	7/23 ms	+/- 60°	+40°, -60°	50G, 6ms Sine Wave	2.0G (10-500 Hz)
Gmilrp1-17	17"	13.3" x 10.64"	1280 x 1024	16.2M	300 nits	700:1	2/6 ms	+/- 75°	+75°, -60°	50G, 11ms Sine Wave	1.5G (10-300 Hz)
Gmilrp1-19	19"	14.81" x 11.85"	1280 x 1024	16.7M	250 nits	600:1	13/7 ms	+/- 85°	+/- 85°	50G, 11ms Sine Wave	1.5G (10-300 Hz)
Gmilrp1-20	20.1"	16.06" x 12.05"	1600 x 1200	16.7M	250 nits	700:1	15/10 ms	+/- 85°	+/- 85°	50G, 20ms Sine Wave	1.5G (10-200 Hz)

Video Controller

V	Display Supported	640 x 400	640 x 480	720 x 400	800 x 600	1024 x 768	1280 x 1024	1600 x 1200	Scaling	NTSC/SECAM/PAL/RS-170	Video Supported
APV	15"/17"/19"/20"	70, 85 Hz	60, 67, 72, 75, 85 Hz	70, 85 Hz	56, 60, 72, 75, 85 Hz	60, 70, 72, 75, 85 Hz	60, 72, 75, 85 Hz	No	On/Off	Analog Processor, Picture-in-Picture	Separate, Composite, Sync-On-Green
DPV	15"/17"/19"/20"	70, 85 Hz	60, 67, 72, 75, 85 Hz	70, 85 Hz	56, 60, 72, 75, 85 Hz	60, 70, 72, 75, 85 Hz	60, 72, 75, 85 Hz	60, 70, 75, 85 Hz	On/Off	Digital Processor, Picture-in-Picture	Separate, Composite, Sync-On-Green
DPV-DVI	15"/17"/19"/20"	70, 85 Hz	60, 67, 72, 75, 85 Hz	70, 85 Hz	56, 60, 72, 75, 85 Hz	60, 70, 72, 75, 85 Hz	60, 72, 75 Hz	60 Hz	On/Off	Digital Processor, Picture-in-Picture	DVI-D, Separate, Composite, Sync-On-Green

MTBF

Series	Display	Backlight	Inverter	Power Supply (Optional)
Gmilrp1-15	> 50,000 Hours	> 50,000 Hours (Typ.)	182,000 Hours	Depends on Supply Selected
Gmilrp1-17	> 50,000 Hours	> 50,000 Hours (Typ.)	182,000 Hours	Depends on Supply Selected
Gmilrp1-19	> 50,000 Hours	> 50,000 Hours (Typ.)	182,000 Hours	Depends on Supply Selected
Gmilrp1-20	> 50,000 Hours	> 50,000 Hours (Typ.)	182,000 Hours	Depends on Supply Selected

Environmental

Series	Operating Temp	Storage Temp	Operating Humidity	Storage Humidity	Operating Altitude	Storage Altitude
Gmilrp1-15	0 °C to 50 °C	-20 °C to 60 °C	20% to 85% RH Non-condensing	5% to 85% RH Non-condensing	10,000 feet	40,000 feet
Gmilrp1-17	0 °C to 50 °C	-25 °C to 60 °C	20% to 90% RH Non-condensing	5% to 90% RH Non-condensing	10,000 feet	40,000 feet
Gmilrp1-19	0 °C to 50 °C	-20 °C to 60 °C	20% to 95% RH Non-condensing	5% to 95% RH Non-condensing	10,000 feet	40,000 feet
Gmilrp1-20	0 °C to 50 °C	-20 °C to 60 °C	8% to 95% RH Non-condensing	8% to 95% RH Non-condensing	10,000 feet	30,000 feet

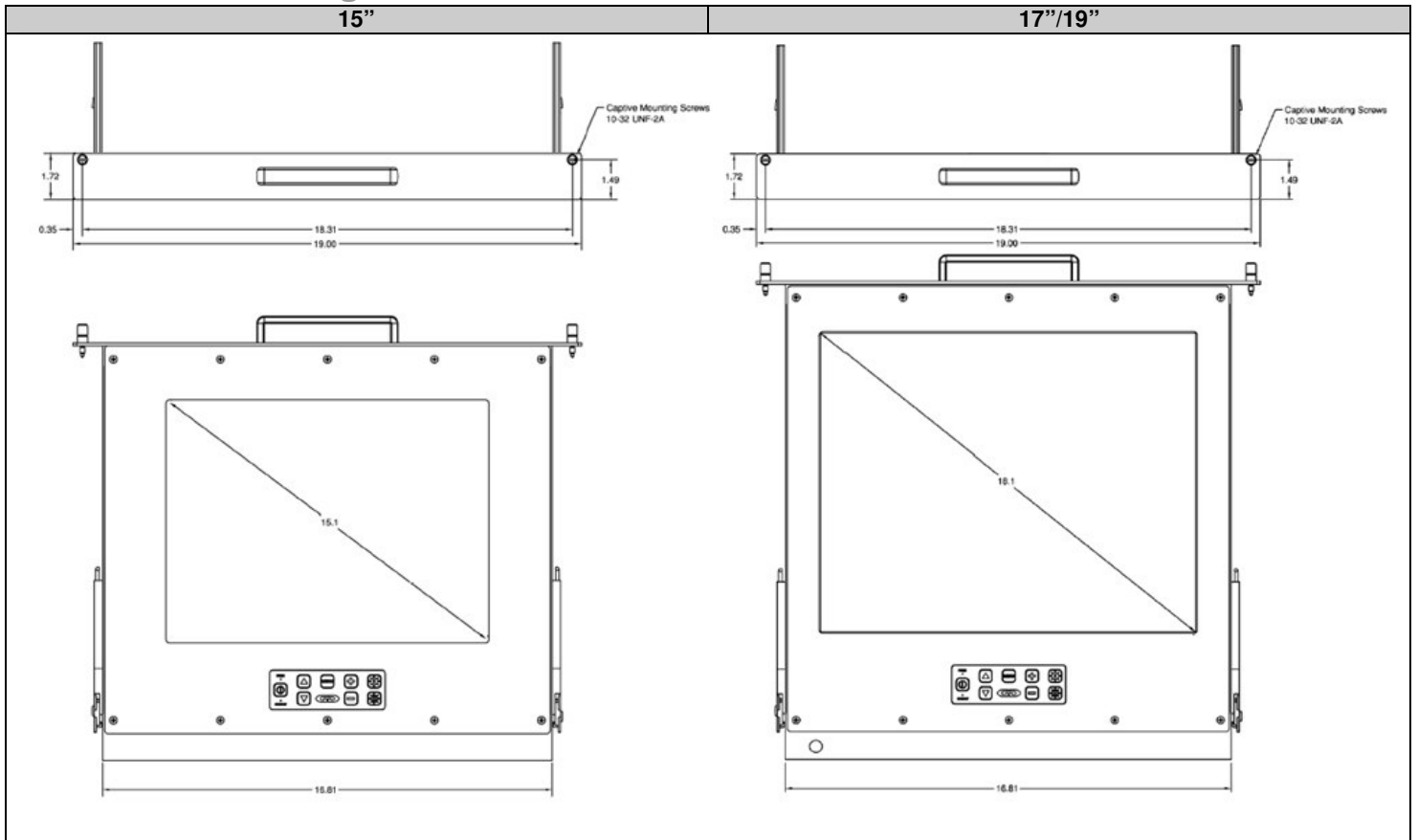
Mechanical

Series	Dimensions (H x W x D)	Construction	Finish	Operating weight	Shipping Weight
Gmilrp1-15	1.75"(1U) x19"x16.63/20"	5052-H32 Aluminum/Steel	Black matte powder coat & clear iridite	14 lbs	20 lbs
Gmilrp1-17	Style 1: 1.75"(1U) x19"x18.12/24" Style 2: 1.75"(1U) x19"x15.81/20"	5052-H32 Aluminum/Steel	Black matte powder coat & clear iridite	16 lbs	22 lbs
Gmilrp1-19	Style 1: 1.75"(1U) x19"x18.12/24" Style 2: 1.75"(1U) x19"x15.81/20"	5052-H32 Aluminum/Steel	Black matte powder coat & clear iridite	16 lbs	22 lbs
Gmilrp1-20	3.50"(2U) x19"x15.81/20"	5052-H32 Aluminum/Steel	Black matte powder coat & clear iridite	27 lbs	33 lbs

I/O Connections

Power (DC)	Analog video	On/Standby (DC)	S-Video (Optional)	Composite Video (Optional)	Touch screen (Optional)
6-pin circular, locking	High density 15-pin socket	LED on Membrane pad	4-pin mini DIN	BNC socket	DE-9 Socket

Mechanical Drawing




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