

## MDUPC Marine Computer Series

### LCD Display Features

- 12", 15", 17", 19" or 20" Active Matrix LCD
- Machined Aluminum Bezel
- Full Dimming Capability
- Sunlight Readable Option (Excluding 20")
- LED Backlight Option (12" - 19")
- Resistive Touchscreen Option
- ECDIS & ECDIS-N Compliant (19" & 20")

### Computer Features

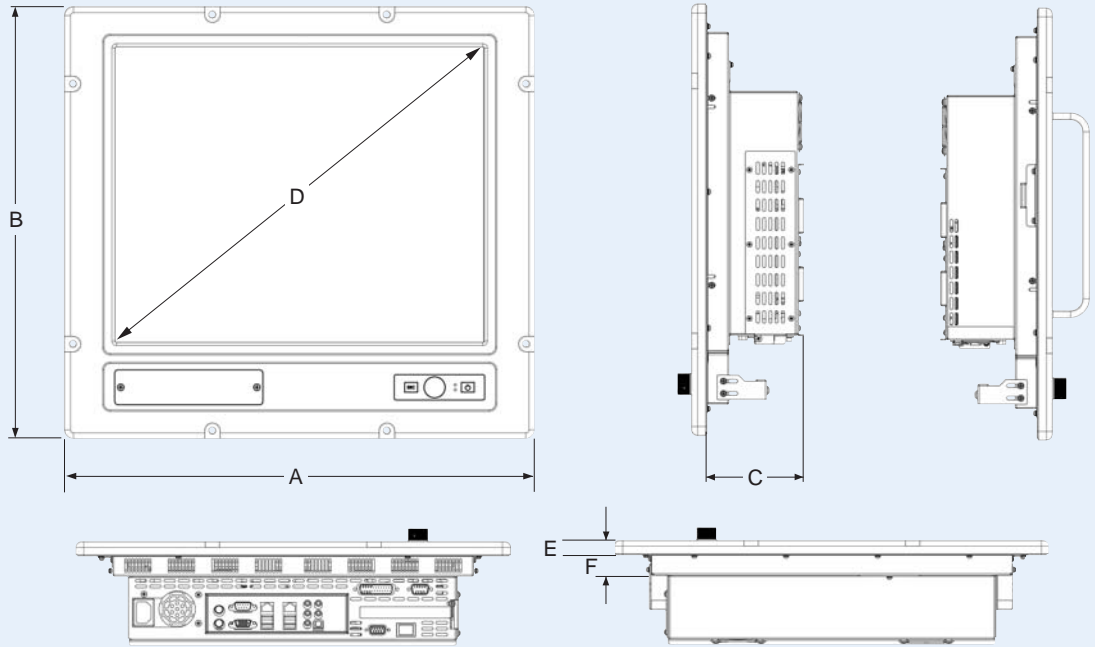
- Celeron M or Core 2 Duo
- Up to 4 GB RAM
- Compact Flash, up to 32GB
- 2½" HD Option (SATA)
- (2) LAN Ports: (2) 1Gbit
- Rack Mount Option
- PCI Card Slot Option (Excluding 12")
- IEC 60945 Type Approval Pending
- ABS Approval Pending
- MIL Compliant



### Specifications

LCD Display	MDUPC20	MDUPC19	MDUPC17	MDUPC15	MDUPC12		
Resolution	1600 x 1200	1280 x 1024	1280 x 1024	1024 x 768	800 x 600 or 1024 x 768		
Brightness (typical)	250 cd/m2	250 cd/m2 or 1000 cd/m2	250 cd/m2 or 1000 cd/m2	250 cd/m2 or 1350 cd/m2	340 cd/m2 or 1000 cd/m2		
Brightness (optional)							
Viewing Angle H/V	174°/174°	178°/178°	178°/170°	140°/140°	130°/110°		
Colors	16.7 Million	16.7 Million	16.7 Million	16.7 Million	262 Thousand		
Contrast Ratio	400:1	800:1	1000:1	550:1	600:1		
Backlight (standard)	CCFL	CCFL	CCFL	CCFL	CCFL		
Backlight (optional)		LED High Bright	LED High Bright	LED High Bright	LED High Bright		
Screen Protection	.125 Thick Plexiglass, Scratch Resistant Safety Glass, EMI Glass Options						
Optional Touchscreen	Resistive, Universal USB/Serial Controller						
<b>Mechanical</b>							
W x H x D (inch)	19.0 x 15.7 x 4.8	19.0 x 15.7 x 4.8	16.5 x 12.5 x 3.6	16.5 x 12.5 x 3.6	13.4 x 10.1 x 3.6		
(mm)	482 x 399 x 121	482 x 399 x 121	418 x 316 x 92	418 x 316 x 92	340 x 256 x 92		
Weight lbs (kgs)	21.5 lbs (9.76 kg)	21.5 lbs (9.76 kg)	15.5 lbs (7.0 kg)	13.5 lbs (6.13 kg)	11.5 lbs (5.0 kg)		
Bezel/Finish/Color	Machined Aluminum Bezel/Class A Epoxy Powder Coat Finish/						
Custom Finish	Consult Factory						
NEMA Rating	4/4X (IP65/66) (Front bezel only)						
Shock	80G, 11 ms, 3 Axis						
Vibration	5 - 33Hz						
Humidity, Operating	5% to 95%						
Operating Temperature	-20° to +55°C						
Extended Temperature	Consult Factory						
<b>Electrical</b>							
Voltage	115/230V Auto Switching or 24VDC						
Power Consumption	120 Watts	110 Watts	100 Watts	100 Watts	70 Watts		
<b>Computer -</b>							
		KB/MS	COM	VGA	1GB LAN	USB	AUDIO
Celeron M	2.13GHz	Y	2	1	2	4	Y
Core 2 Duo	2.2GHz	Y	2	--	2	4	Y
Compact Flash	1, 2, 4, 8, 16, 32GB						
2 ½" Hard Drive	80/160GB, Optional 16, 32 or 64GB Solid State SATA Drive						
PCI Expansion	(1) 32 Bit Card Slot (Not available on MDUPC12)/(1) PCI Express 16						

## Dimensional Drawing



### Dimensions (Inches)

KEY	MDUPC20	MDUPC19	MDUPC17	MDUPC15	MDUPC12
A	19.0	19.0	16.2	16.2	13.4
B	17.5	17.5	13.6	13.6	10.1
C	3.95	3.95	3.95	3.95	3.95
D	20.1	19.0	17.0	15.0	12.1
E	----	----	----	----	.58
F	----	----	----	----	2.8

### Dimensions (Millimeters)

KEY	MDUPC20	MDUPC19	MDUPC17	MDUPC15	MDUPC12
A	444.5	444.5	345.4	345.4	256.5
B	482.6	482.6	345.4	345.4	340.4
C	100.3	100.3	100.3	100.3	100.3
D	510.5	482.6	431.8	381.0	307.3
E	----	----	----	----	14.7
F	----	----	----	----	50.8

## Cutout Drawing

### Cutout Dimensions (Inches)

KEY	MDUPC20	MDUPC19	MDUPC17	MDUPC15	MDUPC12
A	16.38	16.38	12.75	12.75	9.1
B1	3.35	3.35	2.00	2.00	1.65
B2	2.52	2.52	2.00	2.00	1.65
C	17.24	17.24	14.52	14.52	12.3
D	5.08	5.08	4.26	4.26	3.96
E	0.53	0.53	0.35	0.35	0.18
F	0.16	0.16	0.14	0.14	0.18
G	0.28	0.28	0.14	0.14	0.18
H	0.25	0.25	0.25	0.25	0.25

### Cutout Dimensions (Millimeters)

KEY	MDUPC20	MDUPC19	MDUPC17	MDUPC15	MDUPC12
A	416	416	324	324	230
B1	85	85	51	51	42
B2	64	64	51	51	42
C	438	438	369	369	313
D	129	129	108.3	108.3	100.5
E	14	14	9	9	4.5
F	4	4	3.5	3.5	4.5
G	7	7	3.5	3.5	4.5
H	M6	M6	M6	M6	M6

