



## ARM-PPC-F/DM-F (15“~24“)

- ✓ im Alu Gehäuse mit IP65 Rundumschutz
- ✓ erhältliche Serien: PPC-F-BT / PPC-F-H81 / DM-F in Display Diagonalen von 15“ bis 24“
- ✓ mit Tragarmsystem und innen geführten Kabeln
- ✓ Individuelle Bestückung mit Schaltern und Tastern möglich

Unsere Tragarm Panel PC und Monitore setzen sich zusammen aus unseren neusten PPC-F und DM-F Serien sowie den passenden Aluminium Gehäusen unseres Kooperationspartners ROLEC.

Grundsätzlich bieten unsere neuen Tragarm Lösungen eine flexible Tragarmmontage, IP65 Rundumschutz, innen liegende Kabelführung und ergonomisches Bedienen.

Display Diagonale	15“	17“	19“	22“	24“
Verfügbare Modelle					
Panel PC Haswell Baytrail Monitor	PPC-F15A PPC-F15B DM-F15	PPC-F17A PPC-F17B DM-F17	DM-F19	PPC-F22A DM-F22	PPC-F24A DM-F24
Touch	resistiv / projected capacitive			projected capacitive	
Beschichtung Ge- häuse	RAL 9005 Feinstruktur				
Frontplatte	3mm, Silber eloxiert				
Rückwand	Standard Rahmentür 15mm				
Schutzart	IP65 / EN 60529				
Temperaturbereich	0°C bis +40°C				
Gehäusegröße (mm)	431x506,6x85	470,1x536,5x85	500,5x575,5x85	486,5x678,5x85	497x725x85

# Heavy Industrial Panel PC



LCD Size		5.7"	8"	10.4"	12"	15"	
Model		PPC-F06B-BT	PPC-F08B-BT	PPC-F10B-BT	PPC-F12B-BT	PPC-F15A-H81	PPC-F15B-BT
Display	LCD Size	5.7" (4:3)	8" (4:3)	10.4"	12" (4:3)	15" (4:3)	15" (4:3)
	Max. Resolution	640 (W) x 480 (H)	800 (W) x 600 (H)	800 (W) x 600 (H)	1024 (W) x 768 (H)	1024 (W) x 768 (H)	1024 (W) x 768 (H)
	Brightness (cd/m <sup>2</sup> )	550	500	400	600	400	400
	Contrast Ratio	800 : 1	500 : 1	700 : 1	700 : 1	700 : 1	700 : 1
	LCD Color	262K	16.2M	16.2M	16.2M	16.2M	16.2M
	Pixel Pitch (mm) (HxV)	0.18 x 0.18	0.2025 x 0.0675	0.264 x 0.264	0.24 x 0.24	0.29 x 0.29	0.29 x 0.29
	Viewing Angle (V/H)	160° / 140°	140° / 120°	160° / 140°	160° / 140°	160° / 140°	160° / 140°
	Backlight MTBF (hrs)	50000	25000	30000	50000	50000	50000
Touch	TouchScreen	4-wire resistive type flat touch window, 3H	5-wire resistive type flat touchscreen, 3H	5-wire resistive type flat touchscreen, 3H	5-wire resistive single-touch type flat touchscreen, 3H / 2-point projected capacitive type touchscreen, 6H		
	Touch Controller	PenMount DMC9000	PenMount DMC9000	PenMount DMC9000	Penmount DMC 9000 EETI EXC7200	Penmount 6000 EETI EXC7200	Penmount DMC 9000 EETI EXC7200
Motherboard	CPU	Intel® Celeron® processor N2807, dual-core, 1.58GHz	Intel® Celeron® J1900 on-board SoC, quad-core, 2GHz	Intel® Celeron® J1900 on-board SoC, quad-core, 2GHz	Intel® Celeron® quad-core J1900 SoC, 2GHz	4th generation Intel® Core™ i7/ i5/i3, Pentium® and Celeron® processor, up to TDP 35W CPU	Intel® Celeron® quad-core J1900 SoC, 2GHz
	Chipset	N/A	N/A	N/A	N/A	N/A	Intel® H81
	RAM	2GB DDR3L 1600MHz on-board RAM (system max. 4GB by MOQ=300pcs)	1 x 204-pin DDR3L SO-DIMM slot (max. 8GB)	1 x 204-pin DDR3L SO-DIMM slot (max. 8GB)	2 x 204-pin 1066/1333 MHz DDR3L SO-DIMM supported (max. 8GB)	2 x 204-pin DDR3 SO-DIMM slots (max. 16GB)	2 x 204-pin 1066/1333 MHz DDR3L SO-DIMM supported (max. 8GB)
	Ethernet	2 x RTL 8111E	2 x RTL 8111E	2 x RTL 8111E	1 x PCIe GbE by Intel® I210 controller 1 x PCIe GbE by Intel® I211 controller	1 x PCIe GbE by Intel® I210 controller 1 x PCIe GbE by Intel® I217 controller	1 x PCIe GbE by Intel® I210 controller 1 x PCIe GbE by Intel® I211 controller
	Audio Codec	Realtek ALC662 HD codec	Realtek ALC892 HD codec	Realtek ALC892 HD codec	Realtek ALC662 HD codec	Realtek ALC662 HD codec	Realtek ALC662 HD codec
I/O Ports and Switches		1 x RJ-45 LAN port 1 x RS-232 COM port (DB-9 connector) (RI/5V/12V) 1 x RS-422/485 (RI/5V/12V) 2 x USB 3.0 2 x USB 2.0 1 x 9 V~36 V DC lockable jack (2-pin) 1 x Audio port (line-out) 1 x Power switch 1 x Reset button 1 x AT/ATX switch	1 x RS-232 COM port (RJ-45 connector) 1 x RS-232/422/485 COM port (DB-9 connector) (RI/5V/12V) 2 x USB 2.0 2 x USB 3.0 2 x GbE LAN 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x Audio port (line-out) 1 x 9 V~30 V lockable power jack	1 x RS-232 COM port (RJ-45 connector) 1 x RS-232/422/485 COM port (DB-9 connector) (RI/5V/12V) 2 x USB 2.0 2 x USB 3.0 2 x GbE LAN 1 x Power switch 1 x Reset button 1 x AT/ATX switch 1 x Audio port (line-out) 1 x 9 V~30 V lockable power jack	2 x RJ-45 LAN port 2 x USB 3.0 2 x USB 2.0 1 x HDMI 2 x RS-232 1 x RS-232/422/485 1 x VGA 1 x 9 V~36 V DC jack (4-pin) 1 x 9 V~36 V DC terminal block 1 x Power switch	2 x RJ-45 LAN port 2 x USB 3.0 4 x USB 2.0 1 x HDMI 4 x RS-232 1 x RS-422/485 1 x VGA 1 x AC/DC power plug 1 x AT/ATX switch 1 x Clear CMOS 1 x Reset button 1 x Power switch	2 x RJ-45 LAN port 2 x USB 3.0 2 x USB 2.0 1 x HDMI 2 x RS-232 1 x RS-232/422/485 1 x VGA 1 x 9 V~36 V DC jack (4-pin) 1 x 9 V~36 V DC terminal block 1 x Line-out 1 x Power switch
Drive Bay	HDD Driver Bay	N/A	N/A	1 x 2.5" HDD bay	1 x 2.5" HDD bay	1 x 2.5" HDD bay	1 x 2.5" HDD bay
	SSD	mSATA					
Expansion Slot	1 Full Size PCIe Mini Slot (with mSATA, PCIe/USB Signal)	1 x Full-size PCIe Mini slot (with mSATA/Pcie/USB signal) 1 x Half-size PCIe Mini slot for Wi-Fi modules			1 x Full-size PCIe Mini card slot 1 x Full-size PCIe Mini card slot colay mSATA		
System Cooling	Fanless	Fanless	Fanless	Fanless	Fanless	Active fan	Fanless

# Heavy Industrial Panel PC



LCD Size		17"		22"	24"	
Model		PPC-F17A-H81	PPC-F17B-BT	PPC-F22A-H81	PPC-F24A-H81	
Display	LCD Size	17"	17"	22"	24"	
	Max. Resolution	1280 (W) x 1024 (H)	1280 (W) x 1024 (H)	1920 (W) x 1080 (H)	1920 (W) x 1080 (H)	
	Brightness (cd/m <sup>2</sup> )	350	350	250	250	
	Contrast Ratio	1000 : 1	1000 : 1	1000 : 1	3000 : 1	
	LCD Color	16.7M	16.7M	16.7M	16.7M	
	Pixel Pitch (mm) (HxV)	0.26 x 0.26	0.26 x 0.26	0.25 x 0.25	0.28 x 0.28	
	Viewing Angle (V/H)	170° / 160°	170° / 160°	165° / 165°	178° / 178°	
	Backlight MTBF (hrs)	50000		30000	30000	
Touch	Touchscreen	5-wire resistive type single touch window, 3H 2-point projected capacitive touch window, 6H		2-point projected capacitive touch window, 6H	2-point projected capacitive touch window, 6H	
	Touch Controller	Penmount 6000 EETI EXC7200	Penmount DMC 9000 EETI EXC7200	EETI EXC7200	EETI EXC7200	
Motherboard	CPU	4th generation Intel® Core™ i7/ i5/ i3, Pentium® and Celeron® processor, up to TDP 35W CPU	Intel® Celeron® quad-core J1900 SoC, 2GHz	4th generation Intel® Core™ i7/ i5/ i3, Pentium® and Celeron® processor, up to TDP 35W CPU	4th generation Intel® Core™ i7/ i5/ i3, Pentium® and Celeron® processor, up to TDP 35W CPU	
	Chipset	Intel® H81	N/A	Intel® H81	Intel® H81	
	RAM	2 x 204-pin DDR3 SO-DIMM slots (max. 16GB)	2 x 204-pin 1066/1333 DDR3L SO-DIMM supported (max. 8GB)	2 x 204-pin DDR3 SO-DIMM slots (max. 16GB)	2 x 204-pin DDR3 SO-DIMM slots (max. 16GB)	
	Ethernet	1 x PCIe GbE by Intel® I210 controller 1 x PCIe GbE by Intel® I211 controller				
	Audio Codec	Realtek ALC662 HD codec				
I/O Ports and Switches	2 x RJ-45 LAN port 2 x USB 3.0 4 x USB 2.0 1 x HDMI 4 x RS-232 1 x RS-422/485 1 x VGA 1 x AC/DC power plug 1 x AT/ATX switch 1 x Clear CMOS 1 x Reset button 1 x Power switch		2 x RJ-45 LAN port 2 x USB 3.0 2 x USB 2.0 1 x HDMI 2 x RS-232 1 x RS-232/422/485 1 x VGA 1 x DC jack (4-pin) 1 x Terminal block 1 x Microphone & speaker 1 x power switch		2 x RJ-45 LAN port 2 x USB 3.0 4 x USB 2.0 1 x HDMI 4 x RS-232 1 x RS-422/485 1 x VGA 1 x AC/DC power plug 1 x AT/ATX switch 1 x Clear CMOS 1 x Reset button 1 x Power switch	
					1 x 2.5" SATA HDD bay with anti-shook or 1 x 3.5" SATA HDD bay with anti-shook	
Drive Bay	HDD Driver Bay	1 x 2.5" SATA HDD bay with anti-shook		1 x 2.5" SATA HDD bay with anti-shook or 1 x 3.5" SATA HDD bay with anti-shook		
	SSD	mSATA				
Expansion Slot		1 x Full-size PCIe Mini card 1 x Full-size PCIe Mini card co-lay mSATA				
System Cooling		Active fan	Fanless	Active fan	Active fan	

# Heavy Industrial Monitor

## 6.5"~15" DM-F IP65 Industrial Monitor

### Features

- Robust IP65 aluminum front bezel
- Aesthetic ultra-thin bezel for seamless panel mount installation
- DC input
- DVI / VGA flexible video input solution
- Resistive single touch
- Wide temperature support



### Specifications

Model		DM-F65A	DM-F08A	DM-F12A	DM-F15A
LCD	LCD Display	6.5" (4:3)	8" (4:3)	12" (4:3)	15" (4:3)
	Max. Resolution	640 (W) x 480 (H)	800 x 600	1024 (W) x 768 (H)	1024 (W) x 768 (H)
	Brightness (cd/m²)	800	500	600	450
	Contrast Ratio	600:1	500:1	700 : 1	800 : 1
	LCD Color	16.2M	262K	16.2M	16.2M
	Pixel Pitch (mm)	0.207 x 0.207	0.0675 x 0.2025	0.24 x 0.24	0.29 x 0.29
	Viewing Angle (H-V)	160° / 140°	140°/120°	160° /140°	160° / 150°
	Backlight MTBF (Hrs)	50000	50000	50000	70000
Touchscreen & Controller		5-wire resistive single touch window/ Penmount 6000		5-wire resistive single touch window/ Penmount 6000 2-point projected capacitive touch window/ EETI EXC7200	
I/O Ports		1 x VGA (DB-15) 1 x DVI 1 x USB 2.0 (touch) 1 x RS-232 (reserved for resistive touch ATO) 1 x Lockable 12V DC jack		1 x VGA (DB-15) 1 x HDMI 1 x DisplayPort 1.1 1 x USB 2.0 (touch) 1 x RS-232 (reserved for resistive touch ATO) 1 x Lockable 9V-36V DC jack 1 x 9V-36V terminal block	
OSD	OSD Button	5-key membrane OSD keypad		7-key membrane OSD keypad	
	Smart OSD Software	Smart OSD Software			
Physical	Construction Material	Aluminum front frame and sheet metal rear cover			
	Mounting	Panel Mount/ Rack Mount 75 x 75 VESA Mount		Panel Mount/ Rack Mount/ 100 x 100 VESA Mount	
	Enclosure Color	Black C			
	Dimensions (mm)	191.8 x 154.36 x 42.88	222.2 x 182.2 x 42.7	262.2 x 322.2 x 40.5	303 x 378.5 x 43.2
	Cutout Dimensions (mm)	180 x 140	206 x 154	244.8 x 304.8	285.6 x 361.1
	Weight (kg) Net/Gross	1.1/2.6	1.33/4.5	2.7 / 4.9	3.5 / 5.5
Environment	Humidity	10% to 95% (non-condensing)			
	IP Level	IP 65 compliant front panel			
	Safety and EMC	CE & FCC certified			
Power	Power Adapter	63040-010036-121-RS		60W 12V output with lockable jack (63040-010060-120-RS, optional)	
	Power Input	12V DC		9V~36V DC	

# Heavy Industrial Monitor

## 17"~24" DM-F IP65 Industrial Monitor

### Features

- Robust IP65 aluminum front bezel
- Aesthetic ultra-thin bezel for seamless panel mount installation
- Wide range 9V~36V DC input
- HDMI / DisplayPort / VGA flexible video input solution
- Projected capacitive multi-touch and resistive single touch options
- Wide temperature support



### Specifications

Model		DM-F17A	DM-F19A	DM-F22A	DM-F24A
LCD	LCD Display	17" (5:4)	19" (4:3)	21.5" (16:9)	24" (16:9)
	Max. Resolution	1280 (W) x 1024 (H)	1280 (W) x 1024 (H)	1920 (W) x 1080 (H)	1920 (W) x 1080 (H)
	Brightness (cd/m <sup>2</sup> )	350	350	250	250
	Contrast Ratio	1000 : 1	1000 : 1	1000 : 1	3000 : 1
	LCD Color	16.7M	16.7M	16.7M	16.7M
	Pixel Pitch (mm)	0.26 x 0.26	0.294 x 0.294	0.25 x 0.25	0.28 x 0.28
	Viewing Angle (H-V)	170° / 160°	170° / 160°	170° / 160°	178° / 178°
	Backlight MTBF (Hrs)	50000	50000	30000	30000
Touchscreen & Controller		5-wire resistive single touch window/ Penmount 6000 2-point projected capacitive touch window/ EETI EXC7200		2-point projected capacitive touch window/ EETI EXC7200	2-point projected capacitive 2-point touch window/ EETI EXC7200
I/O Ports		1 x VGA (DB-15) 1 x DVI (F19A only) 1 x HDMI (F17A only) 1 x DisplayPort 1.1 1 x USB 2.0 (touch) 1 x RS-232 (reserved for resistive touch ATO) 1 x Lockable 9V-36V DC jack 1 x 9V-36V terminal block		1 x VGA (DB-15) 1 x HDMI 1 x DisplayPort 1.1 1 x USB 2.0 (touch) 1 x RS-232 (reserved for resistive touch ATO) 1 x Lockable 9V-36V DC jack 1 x 9V-36V terminal block	
OSD	OSD Button	7-key membrane OSD keypad			
	Smart OSD Software	Smart OSD Software			
Construction Material		Aluminum front frame and sheet metal rear cover			
Physical	Mounting	Panel Mount/ Rack Mount/ 100 x 100 VESA Mount	Panel Mount 100 x 100 VESA Mount	Panel Mount/ 100 x 100 VESA Mount	Panel Mount/ 100 x 100 VESA Mount
	Enclosure Color	Black C			
	Dimensions (mm)	341.4 x 408.4 x 49.3	372.4 x 447.4 x 49.57	358.4 x 550.4 x 49.1	382 x 600 x 49.4
	Cutout Dimensions (mm)	324 x 391	430 x 355	340 x 532	358.6 x 576.6
	Weight (kg) Net/ Gross	4.4 / 7.1	5.4 / 8.4	6.3 / 9.6	7.6 / 10.9
Environment	Humidity	10% to 95% (non-condensing)			
	IP Level	IP 65 compliant front panel			
	Safety and EMC	CE & FCC certified			
Power	Power Adapter	60W 12V output with lockable jack (63040-010060-120-RS, optional)			
	Power Input	9V~36V DC			