Industrial Touch Display & Panel PC Solutions Comprehensive Guide: Open Frame | Panel Mount | Fully Enclosed

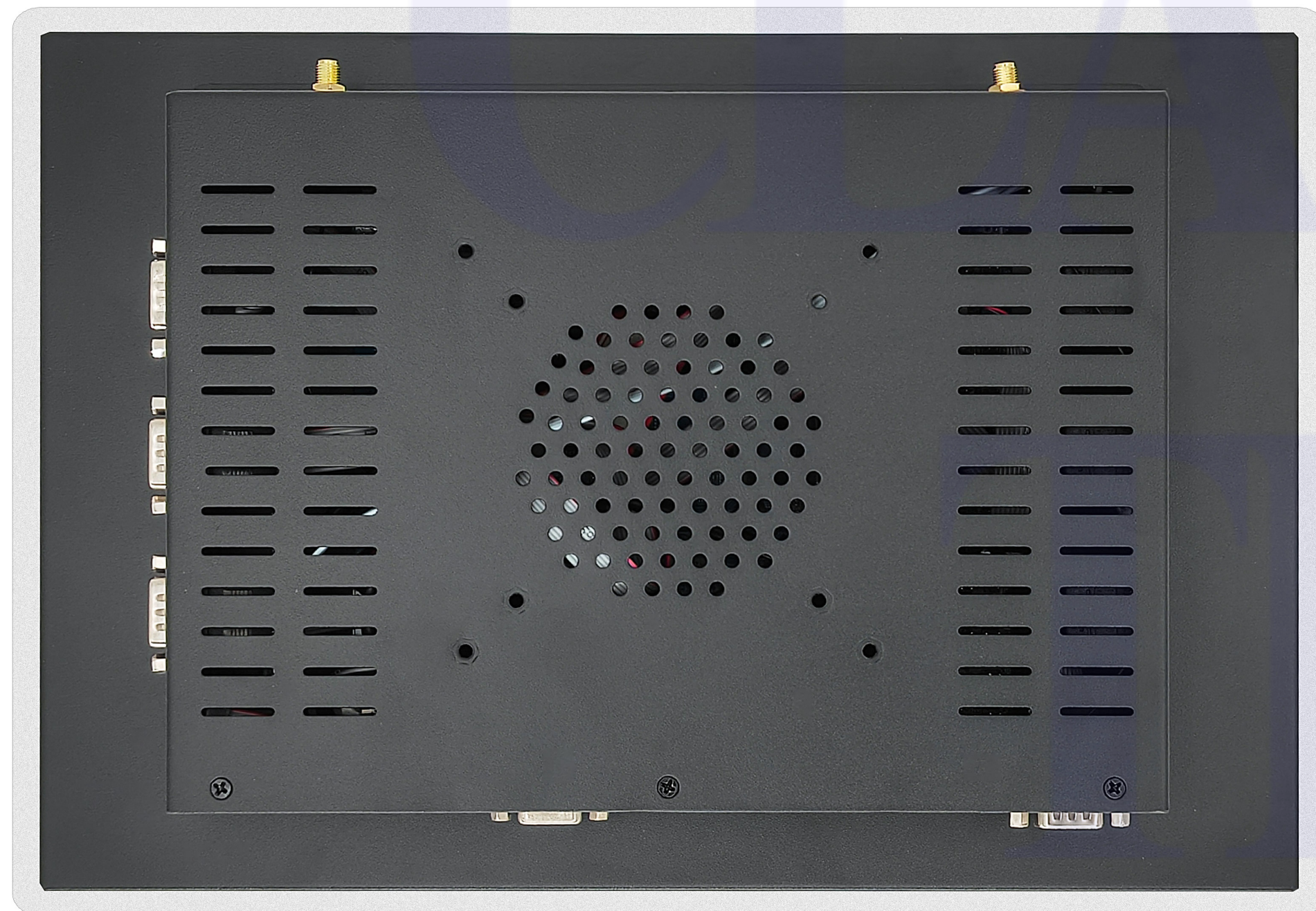*Direct from Manufacturer: Flexible Housing, Rugged Performance.*

ClaraTech offers a complete range of industrial computing solutions designed for Kiosks, ATM, Automation, and HMI applications. Whether you need a **drop-in Open Frame** replacement or a **IP65 Panel Mount** unit for a control cabinet, we have the mechanical capability to customize the fit perfectly.

- **One Motherboard, Any Form Factor:** Unified internal architecture for easy maintenance.

- **Sheet Metal Customization:** We own the factory – custom brackets and back-shell modifications are standard for us.

Series A: Open Frame (Semi-Enclosed) Ideal for: Kiosks / ATMs / Vending Machines / Custom Cabinets

The Series A Open Frame line features a minimal metal chassis with integrated side-mounting brackets. It is designed to be installed from the rear into your machine's cutout. The "step-profile" bezel ensures a flush surface fit.

Key Mechanical Features:

- **Mounting:** Adjustable Side Brackets (Standard) + Top/Bottom Flanges.

- **Structure:** Cold Rolled Steel (SECC) structure.

- **Design:** Semi-enclosed rear allows for optimal passive cooling in tight spaces.

- **Customization:** We can modify the bracket position to match your existing legacy CRT/LCD cutout.

Series B: Panel Mount (Front Bezel) Ideal for: Control Cabinets / CNC Consoles / Industrial HMI

The Series B is designed for front-mounting installation. It features a rugged aluminum or steel front bezel with an IP65 rating (Water/Dust Proof). Installation is secured using rear buckle clips (included).

Housing Options:

- **Type B1 (Semi-Enclosed Rear):** For standard cabinet ventilation.

- **Type B2 (Fully Enclosed Rear):** For dusty environments requiring sealed protection.

Key Mechanical Features:

- **Front Bezel:** IP65 Rated (Waterproof front).

- **Mounting:** "Buckle Clip" system clamps the monitor firmly to the cabinet door.

- **Touch:** Zero-bezel True Flat P-CAP touch (Easy to clean).

Series C: Fully Enclosed Chassis Ideal for: Arm Mounting / Wall Mount / Desktop Stand

The Series C is a standalone unit with a fully sealed metal housing (360° protection). It does not require a cabinet and can be mounted

Key Mechanical Features:

- **Housing:** Full Metal Enclosure (Powder Coated).

- **Mounting:** Standard VESA 75mm / 100mm holes.

- **Protection:** Prevents dust and debris entry; fanless heat dissipation via the metal case.

Technical Specifications (All Series)

1. Computing System (Panel PC Version)

- **Processor (Standard):** Intel Celeron J1900 (Quad Core, 2.0GHz, Fanless)
- **Processor (High Performance):** Intel Core i3 / i5 / i7 (Optional)
- **Memory (RAM):** 4GB / 8GB DDR3L (J1900); DDR4 (Core i-series)
- **Storage:** 64GB / 128GB / 256GB / 512GB mSATA SSD
- **Operating System:** Windows 7 / 10 / 11, Linux (Ubuntu), Android
- **Cooling:** Fanless Passive Cooling Design

2. Display & Touch

- **Panel Type:** Industrial Grade TFT LCD (A+ Grade)
- **Backlight Life:** 50,000 Hours
- **Touch Technology:** 10-Point Projected Capacitive (P-CAP)
- **Touch Interface:** USB
- **Surface Hardness:** ≥ 6H (Mohs)

3. I/O Interfaces (Standard Configuration)

- **Video:** 1x HDMI, 1x VGA
- **USB:** 1x USB 3.0, 3x USB 2.0
- **Network:** 1x RJ45 Gigabit Ethernet (Realtek)
- **Serial:** 2x COM (RS232) - *More available on request*
- **Audio:** 1x Mic-in, 1x Line-out
- **Power:** 1x DC-12V Input (Aviation Plug or Standard Jack)

4. Environmental & Physical

- **Operating Temp:** -10°C to 60°C (14°F to 140°F)
- **Storage Temp:** -20°C to 70°C (-4°F to 158°F)
- **Humidity:** 10% ~ 90% (Non-condensing)
- **Material:** High-strength Cold Rolled Steel
- **Certifications:** CE, FCC, RoHS

Model Selection Matrix

Size	Resolution	Aspect Ratio	Brightness (Nits)	Active Area (mm)	Recommended Series
7"	1024 x 600	16:9	300	154 x 85	Series A / B
10.1"	1280 x 800	16:10	350	217 x 136	Series A / B
10.4"	1024 x 768	4:3	350	211 x 158	Series B (CNC)
12.1"	1024 x 768	4:3	400	246 x 184	Series A / B
15"	1024 x 768	4:3	400	304 x 228	**Most Popular**
15.6"	1920 x 1080	16:9	350	344 x 193	Series A (Kiosk)
17"	1280 x 1024	5:4	350	338 x 270	Series A / C
19"	1280 x 1024	5:4	350	376 x 301	Series C
21.5"	1920 x 1080	16:9	300	476 x 268	Series A

Get a Quote / Request Drawings ClaraTech Monitors

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