Kitchen display hardware: procurement specification (PoE)

Vendor-neutral requirements for kitchen display hardware powered over Ethernet. Ask each bidder to answer every item in writing.

1. **Power input.** The display shall accept power as an IEEE 802.3 powered device (PD) through its own Ethernet port. State the type (802.3af, 802.3at or 802.3bt), the class, and whether the input is native or by an add-on module.
2. **Documented power.** State the maximum power drawn at the PD in watts, measured with all supported peripherals attached, and any feature, port or brightness limit when running on PoE.
3. **Certification.** State whether the display is listed on the Ethernet Alliance PoE certified product registry, and under which generation.
4. **Alternative power.** State whether a power adapter is supplied or required for any configuration.
5. **Network.** Wired Ethernet with a stated link speed. State support for DHCP reservations or static addressing, 802.1X or MAC-based authentication, LLDP and LLDP-MED.
6. **Environmental rating.** State the IP code (IEC 60529) or NEMA type, the test report or certificate, and which part of the unit the rating covers (front panel or whole unit), including with mounts and accessories fitted.
7. **Construction.** State the housing material and grade separately from the environmental rating.
8. **Operating conditions.** State the operating temperature and humidity range.
9. **Cleaning.** List the cleaning agents and methods approved for the housing, screen and seals.
10. **Mounting.** State the VESA pattern or mounting system, and the cable entry and strain relief for wall, pole, ceiling and under-shelf mounts.
11. **Remote management.** State how the display can be monitored, restarted and updated remotely, and its behavior after a power cycle.
12. **Peripherals.** List supported peripherals (bump bars, printers, scanners) and the power available to each when the display runs on PoE.
13. **Software compatibility.** Name the POS and KDS software versions the hardware is certified with.
14. **Warranty and support.** State warranty terms when powered by PoE, including by an injector or third-party splitter, and the advance-replacement terms.

From RouterHaus, The single-cable kitchen: https://routerhaus.com/assets/blog/poe-kitchen-display-systems

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