

Sabot 1316: Industrial Workstation

This system features robust construction for reliable performance in hot and dusty environments. The current computer serves as the heart of an industrial automation application, providing high-speed image capture for a proprietary mail management system. Multiple platform configurations.

Performance Characteristics:

Flexible COTS architecture accommodates up to Tenth Generation Intel® processors. Robust construction in a short-depth 4U rack-mount unit.

Ergonomics:

17" (432mm) W x 7" (179mm) H x 17.5" (444mm) D. Designed for rack installation in hot, dusty conditions.

Lifecycle:

Seven-year availability.

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EmbedTek designs, invents, and manufactures computers, software, sensors, cameras, and displays for original equipment manufacturers. Our systems improve the quality of imaging in healthcare, simulation programs in the military, video analytics in security, and much more. Throw any challenge at us, from demanding environment and ergonomic requirements to High Level Assembly and nonstandard I/O. We'll evaluate it, carefully attack it, and solve it.

Product Realization: Sabot 1316



A manufacturer of industrial automation systems required a flexible platform – one that would support multiple configurations and remain viable over a long product lifecycle.

Overall challenge:

Establish a robust design that would have immediate value, and would remain viable as technology and applications evolved.

Design:

Initial and projected add-in card requirements specified a 4U chassis with a 17.5” depth. Chassis designed for maximum rack airflow.

Prototypes & Validation:

Expedited prototyping saw us taking two parallel paths: one to validate the performance against the customer’s software application; another to validate physical and thermal suitability.

Launch:

First product delivered three months after initial go-ahead.

Production, End-of-Life:

Successive product iterations include new cards and processors that were not part of the initial validation. Production process includes a quality check and balance for each configuration before it is allowed to ship.

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