

Custom VME system solution

SEMINCONDUCTOR

WAFER PROCESSING SYSTEM



This robust solution combines custom and off the shelf hardware and software in one package under one part number.

- Custom chassis
- Custom VME backplane
- Dual SBC architecture
 - 6U VME Intel running Linux
 - 6U VME Dual PowerPC running VxWorks
- Custom system cabling for improved airflow and serviceability
- 6U Ethernet switch provides LAN both inside and outside the chassis
- Custom mass storage solution
- PMC I/O
 - Audio
 - Serial ports
 - Video

Requirements

Provide a chassis level solution for use in this wafer processing equipment while reducing overall costs and improving equipment serviceability and reliability.

Solution

Supplied fully integrated and tested turnkey systems to the customer. The chassis is shipped as a sub-assembly under a single part number ready for installation. Provide fully documented configuration management including consideration



for EOL components, costs, and new technology insertions. Perform complete verification, validation and qualification testing along with all supporting documentation. Testing at Elma Electronic include a 96 hour run-in with pre- and post-functional verification to ensure plug and play installation at the customer's facility.

Benefits

Dramatic increase in production yields and improved field reliability with reductions in procurement costs, engineering costs and production cycle times. Allows the customer to concentrate on core capabilities while meeting the demands of the production schedule. Elma Electronic serves as a single point of contact for all support issues as well as a spares depot for key components enabling the short lead-time so vital to keep the customer's production line running without interruption.