

20% Reduction in Development Time for Redesign Projects

Challenges Faced:

- Identifying suitable alternate parts based on price, availability, and other factors.
- Updating the design to incorporate the new components, including circuit design, layout modification, firmware update, and integration and testing.
- Obtaining certifications, if required, for the updated product.

Implemented Solutions:

- iLenSys Technologies developed modular design libraries for micro-controllers, interfaces, external memory, communication interfaces and protocols, and human-machine interfaces.
- The libraries include a wide range of components, including ARM Cortex, DSP, PIC, Intel, and MSP Core based controllers, NOR/NAND flash, EEPROM, SRAM, SDRAM, external modules, and communication interfaces such as RS232, RS485, RS422, UART, USB, CAN, SPI, I2C, Ethernet, Wi-Fi, Zig Bee, NFC, RFID, and Bluetooth.
- The libraries also include a variety of displays and keyboards for human-machine interfaces.
- These libraries are available as "off the shelf" modules and can be used to reduce development time and support component replacement and redesign, including simulation and testing.

Results:

- Using the modular design libraries, iLenSys Technologies reduced development time for redesign projects by 20%.
- The libraries also supported component replacement and redesign, including simulation and testing, which helped to reduce the impact of obsolescence.
- The use of the libraries also helped ensure that the updated products met the necessary certifications and standards.

Business Benefits:

- The reduction in development time and support for component replacement and redesign can help minimize the impact of obsolescence and prevent parts shortages, which can improve business continuity and customer satisfaction.
- The use of modular design libraries can also help reduce the costs associated with redesign projects and the time and resources required for certification and testing.
- Overall, iLenSys Technologies' obsolescence management solution can help businesses stay competitive and agile in a rapidly changing market.