Objective of the present work:

Component obsolescence in the “High-tech Embedded” electronics industry has become a challenge, which needs a special attention.

To improve profitability, Electronic component manufacturers to focus on, bringing design flexibility & commonality for both the Military & Industrial Applications.

In response, this research study will focus on four fundamental objectives that highlight the importance, provide a new insight, and offer solutions to the problem of product obsolescence.

The objectives of the study include the following:-

1. To determine the Product Life Cycle of the Electronic System & Predict Obsolescence of the same.

2. To address Reliability, Availability & Maintainability (RAM) as an essential elements of Functionality of the system.

3. To study the effective use of Prognostic & Diagnostic Techniques.

4. To study the Proactive Design & Management Approaches.

Thus this study demonstrates that, obsolescence prediction, proactive design / management and mitigation through Levelheaded Obsolescence Assessment and the use of Pricing based on Value Proposition is key in determining optimal decisions and staying competitive in the “High-tech Embedded” electronics industry for Military & Industrial Applications.