

Section-1

Q-1 What is the advantage of using software core packages for designing digital circuits.

Ans ① Simplified decision making \rightarrow obtaining one complete view by integrating your software system simplifies the decision making process. It removes the need to move between different applications to get to data that may influence your decisions.

② Increased productivity \rightarrow Integrating application that use the same data sources will allow you to improve your operations productivity. This is particularly relevant where the same data is entered multiple times into different software systems.

③ Enhanced analysis \rightarrow Related data is more meaningful & powerful when is pulled together in one application. Analysis of

Multiple data sources is better handled by bringing the data together where trends and conclusion can be draw much sooner.

④ Improved data security → Managing the security of your data within one unified system application is much easier than managing multiple system of data. By integrating the management, backup and administration, tasks are simplified.

Designing digital circuits.

① Circuit Maker → A free-to-use schematic and PCB design tool for the open source Hardware community.

② Kicad EDA → A cross-Platform and open source Electronics Design Automation suite.