

Schneider Service Manual

140CPU53414A

3. Product Information

The 140CPU53414A from Schneider Electric is a processor unit designed for the Modicon Quantum series, featuring a reliable 80586 processor with a clock speed of 133 MHz. It offers 2.7 MB of internal memory and includes a math coprocessor for enhanced processing capability.

Technical specifications for 140CPU53414A

Manufacturer Schneider Electric

Product Line Modicon Quantum

Part Number 140CPU53414A

Weight 2.00 lbs (0.91 kg)

Processor Type 80586 Processor

Clock Frequency 133 MHz

Internal Memory 2.7 MB

Math Coprocessor Included

Modules Supported 6 modules

Operating Temperature Range 0°C to 60°C

Storage Temperature Range -40°C to 85°C

Communication Ports RS-232, RS-485

Key Switch Included

Battery Type 3V lithium battery

Battery Service Life 1200 mAh

Battery Shelf Life 10 years

The Schneider Electric 140CPU53414A is a robust component of the Modicon Quantum series, utilizing an advanced 80586 processor clocked at 133 MHz. With an internal memory capacity of 2.7 MB, this unit is designed to handle demanding processing tasks efficiently and effectively. Furthermore, it incorporates a math coprocessor, which allows for faster calculations and improves the overall performance of complex applications.

This model supports the integration of up to 6 additional modules, offering scalability and adaptability to various industrial automation needs. The device operates reliably in environments with temperatures ranging from 0°C to 60°C, while it can withstand storage temperatures as low as -40°C to as high as 85°C, ensuring its durability across challenging conditions.

For connectivity, the 140CPU53414A includes both RS-232 and RS-485 ports, facilitating communication with different devices in an automation network. The inclusion of a key switch adds an additional layer of security, enabling controlled access to the unit. A 3V lithium battery powers the device, providing 1200 mAh of service life, which supports the retention of settings and data during power disruptions. This battery has a shelf life of 10 years, ensuring dependable performance over extended periods without replacement.