

3HAC031851-001

Industrial automation components

Manufacturer	Abb
Catalog number	3hac031851-001
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	0.44 kgs kg
Product Type	Serial Measurement Board
Product Family	IRC5 Robotic Controller
Input Channels	4 serial ports
Interface	4 Serial Ports
Operating Temperature Range	-40°C to +85°C
Dimensions	85mm x 51mm x 22mm

Description

The ABB 3HAC031851-001 is a high-precision Serial Measurement Board (SMB) designed for integration into ABB's IRC5 robotic controller systems. This module serves as the primary interface for processing positional data from the robot's resolvers, converting analog feedback into digital signals to maintain precise positional awareness across multiple axes. Equipped with four dedicated serial ports, the 3HAC031851-001 facilitates complex feedback loops for multi-axis configurations, ensuring high-speed data transmission and synchronization between the robot manipulator and the control cabinet. This board is essential for applications requiring accurate path following and repeatability, such as complex welding and material handling tasks. Its robust design ensures reliable operation under demanding industrial conditions, making it a critical component for maintaining the performance and longevity of ABB robotic systems.