

# Product Specification

## 1. Product Overview

- 1.1 Product Name: Integrated Joint Module
- 1.2 Product Model: RU-JTM-70-023-30-31-D48
- 1.3 Product Description:

The Integrated Joint Module is a highly integrated actuator that incorporates a frameless torque motor, reducer, encoder, and servo driver. It is widely used in high-dynamic scenarios such as robotic arms, humanoid robots, and multi-legged robots.

- Rated Power:230W
- Multiple Control Modes: Position / Speed / Torque Control
- Comprehensive Protection Mechanisms

## 2. Technical Specifications

### 2.1 Parameter Table

Item	Parameter	
<b>Parameter</b>	Rated Voltage	DC 48v
	Rated Power	230W
	Peak Power	
	Rated Speed	32rpm
	Maximum Speed	300rpm
	Rated Torque	31N.m
	Peak Torque	68N.m
	Rated Current	3.6A
	Peak Current	7.8A
	Gear Ratio	1:100
	Reducer Backlash	< 3 arcmin
	Encoder	Absolute Dual-Encoder 24bit/24bit
	Communication Protocol	CAN2.0
	Weight	0.82kg
Operating Temperature	-20°~65°	

## 3. Dimensions and Appearance

### 3.1 Dimension Drawing

