

AWJCM Drive Unit

Model Number: THRSLAWDR01

Overview

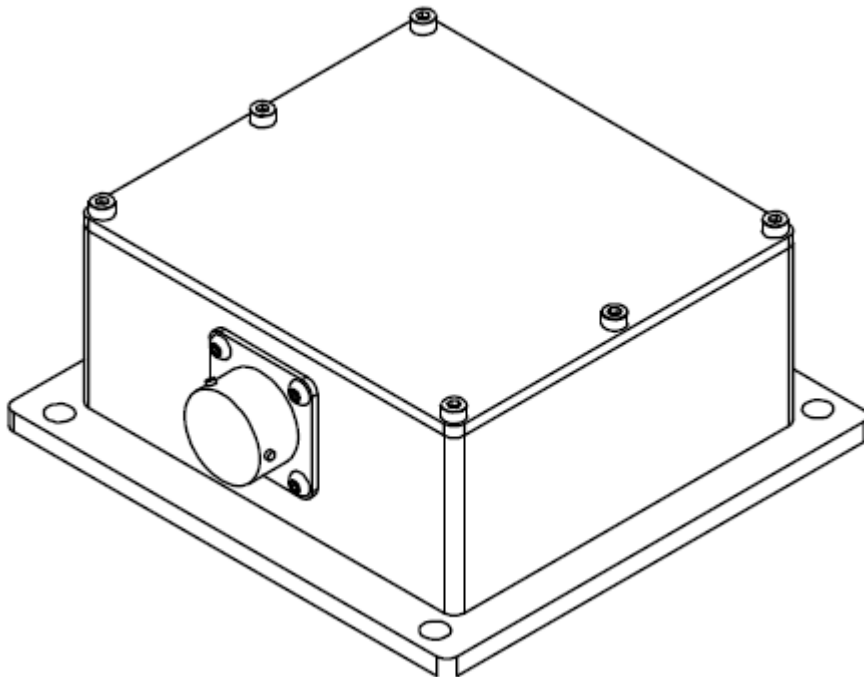
The **AWJCM Drive Unit** is a dual-channel motor drive solution designed for reliable performance in defense and robotics platforms. Compatible with the **RoboteQ SDC 2160 controller (or equivalent)**, it delivers high-current handling, multiple digital inputs, and robust RS-232 communication. The system has been **proven in the UXOR project supplied to the Indian Air Force**, demonstrating THRSL's commitment to rugged, plug-and-play technologies.

Technical Specifications

Parameter	Specifications
Drive Controller	RoboteQ SDC 2160 or equivalent
No. of Channels	2
Power Supply	12V DC & 24V DC
Max. Channel Current	20A
Digital Inputs	6 Nos.
Communication	RS-232
Connectors	- Amphenol 62IN-12E-14-19S (Power & Motor) - Amphenol 62IN-12E-12-10P (Power & Motor)
Protection Standard	IP65
Operating Temperature	-20°C to +55°C

Key Features

- Dual-channel motor drive with RS-232 interface
- Supports both 12V and 24V power inputs
- Handles up to 20A current per channel
- Six digital input lines for flexible control
- Rugged Amphenol MIL-grade connectors for reliability
- IP65 enclosure for dust and water protection
- Wide operating temperature range: **-20°C to +55°C**
- Designed as a **plug-and-play drive unit** for defense-grade robotics



Applications

- Mobility systems in robotic platforms
- Subsystem actuation for defense applications
- UXOR system drive control (field-proven in IAF deployment)
- Bench and field testing of robotic motion

Note

The **AWJCM Drive Unit** is a part of **THRSL's standard technology suite**, designed for **plug-and-play deployment**. Successfully deployed in the **UXOR project for the Indian Air Force (IAF)**, it is also **customizable** to meet specific user requirements.