

MULTI PURPOSE MODULE

KADRO

At-a-Glance

KADRO uses well defined parts in order to provide reusability.

Our solutions based on KADRO ranges from small portable test solutions to large real-time (HIL) systems.

Naturally we provide traceability in all aspects from configuration and requirements to test results.

In product development our solutions shorten development time and improve quality. In production our solution cut time and provides data for yield measurements.

Our mission for each customer is to provide the most cost effective solution.

ADVANTAGES

- A proven concept, based on 15 years' experience in Test System Development.
- Cost Efficient.
- Long economical life length
- Flexible architecture
- Cloud Solution enables the possibility to work remote.
- Remote control and configuration with Amazon Web Services.
- Uses high-end hardware and software from NI such as Veristand and PXI.



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SUMMARY

The Multi Purpose Module (MPM) provides signal conditioning and switching capabilities of eight channels.

The flexibility and the small size of the MPM enables compact solutions with minimum of wirings, still easy to maintain and upgrade



THE MULTI PURPOSE MODULE PROVIDES:

Signal conditioning:

- On board digital signal conditioning (adjustable threshold 5-40V).
- Optional add-on modules for:
 - Current and Voltage amplifiers
 - Resistance emulator
 - Custom applications

Signal switching:

- Brake up switch for each channel
- Two switches for each channel to common buses
- The common buses can be configured for four or eight channels
- Suitable for both digital and analog fault insertion
- Provides build in test for system check

Configuration and monitoring

- Easy operation using KADRO's generic API
- Configuration of digital threshold for each signal
- Monitoring of each signal using our digital threshold
- Switch configuration in order to protect each test setup

SPECIFICATION:

Functionality

- ✓ Digital signal conditioning of each channel (1-8) with configurable threshold (5-30V)
- ✓ Status monitoring of each channel
- ✓ Interface for signal conditioning add-on modules
- ✓ Brake up switch for each channel
- ✓ Two common buses with switches to each channel

Electrical parameters:

- ✓ Power supply: 24VDC, +/-10%
- ✓ Operating voltage range: -10- +60V
- ✓ Max continuously current : 10A /ch (Max 40A by parallel channels)
- ✓ Max peak current: 100A/1s
- ✓ 100V channel isolation
- ✓ Channel bandwidth (50Ω): 1 MHz
- ✓ Channel to channel isolation: (50Ω/1MHz): 60dB

Mechanical parameters

- ✓ PCB: (h) 100 mm x (l) 160mm
- ✓ Front panel: (h) 100 mm x (b) 60mm (3U, 8TE according to IEC60297)

Compliance according to:

- ✓ RoHS
- ✓ WEEE
- ✓ EN 61010
- ✓ EN 60950
- ✓ IEC 60297