

## JT 2111/MPV-DIN

64 channel desktop Digital I/O Scan (DIOS) module with 96-way DIN connector



- ✓ **40 MHz TCK max**
- ✓ **Daisy chaining possible**
- ✓ **64 digital I/O Channels**
- ✓ **Desktop - 96-pin DIN connector**

The JT 2111/MPV-DIN DIOS module is an auxiliary JTAG controlled I/O module for use in test systems. It features 64 I/O channels accessible through a single DIN 41612 IDC connection. Channels are split into four blocks of 16, each of which can be bypassed to shorten the chain if required. This compact unit was designed for easy integration into fixtures or bench use, making it ideal for production testing or as an everyday board debug tool.

The I/O channels offer bi-directional digital signals on every pin allowing connectors and/or test points of a Unit Under Test (UUT) to be sensed and driven as part of a JTAG/boundary-scan test. By implementing I/O channels of a JT 2111/MPV users enjoy increased test coverage for the digital elements of a UUT.

The JT 2111/MPV features two TAP connections 'In' and 'Out'. For single module applications, where only the JT 2111 is connected to a JTAG controller, TAP 'In' only is used and the TDO line is returned to the controller. For applications where more than one module

is needed or the user wishes to 'daisy-chain' the module with the UUT, the TAP 'Out' can be used. Connecting a cable to TAP 'Out' automatically re-routes the TDO line accordingly.

Output logic thresholds are set via a rotary switch at the rear of the unit. 3.3, 2.5, 1.8 and 1.5 Volt levels are available and the selection is displayed by an LED indicator.

A number of additional functions are available to advanced users by manual editing of test data (APL) files or JFT (Python) scripts - these include: target disconnect (hotswap), voltage switch read-back and 200 mA target power supply check.

The unit is fully supported by JTAG Technologies application development tools (*ProVision* and *JTAGLive*) and run-time software options such as PIP/LV (drivers for NI LabView), PIP/TS (drivers for TestStand), etc.

Electrical			
TAP Signals		I/O channels	
TCK max	40 MHz	Number of channels	64 (4 x 16)
Voltage levels	3.3 V (5 V tolerant)	Voltage levels	1.5, 1.8, 2.5, 3.3 V (5 V tolerant @ 3.3 V) select via switch
Mechanical			
I/O Connectors	1 x DIN 41612	Dim's (w-d-h) mm	155 x 87 x 40
TAP Connectors (TAP_IN, TAP_OUT)	2 x 10-pin IDC	Weight	300 grams

## Global Representation

Want to know more about our solutions and products?  
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We *are* boundary-scan.®

