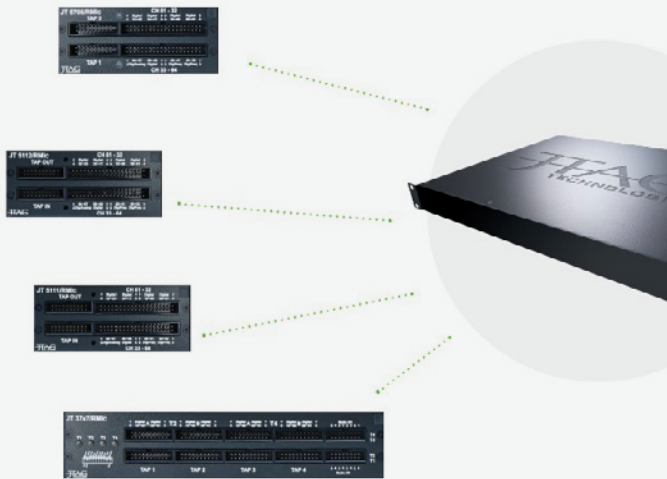# JT 57xx/RMIc- Configurable Rackmountable JTAG Instrument

Modular controller & I/O system with analog and high-speed options

Key features:

- Four module slots for controller, Digital I/O (DIOS) or Mixed-Signal I/O (MIOS) channels
- Up to 256 I/O channels and eight TAPs in total
- High-speed (15MHz) and ultra-high-speed (40MHz) controller options
- Compact 1U 19" rackmount chassis
- Mixed signal measurement features include
  - frequency counter
  - programmable clock generator
  - pulse width measurement
  - analog measure and source

The new concept JTAG-powered PCB tester-programmer - the JT 57xx/RMIc 'Combi-System' - comprises a sleek base-level 19" 1U rack-mount chassis assembly that can house up to four customer-specified modules offering various JTAG (IEEE 1149.x) controller, digital IO and analog IO and other measurement features.
The modules are either ½ rack or ¼ rack width. The following modules are available:

Controller modules
- JT 5705/RMIc ¼ width, featuring
          2 (15MHz) TAPs
          64 channels; 56 DIOS, 8 MIOS
- JT 37x7/RMIc   ¼ width, external QuadPod system
          4 (40MHz) TAPs
          16 static digital IO channels
- JT 37x7/RMIc ½ width, internal QuadPod system
          4 (40MHz) TAPs
          16 static IO channels
          upto 64 digital IO (DIOS) channels

I/O modules
- JT 5112/RMIc   ¼ width, featuring
          64 channels; 56 DIOS, 8 MIOS
- JT 5111/RMIc   ¼ width, featuring
          64 digital I/O (DIOS) channels

The modules offer identical specs to their bench-top equivalents but benefit from higher channel and TAP density, and smaller footprint. By mixing and matching the modules users can configure almost any type of single-box JTAG/boundary-scan tester-programmer, making it a most cost-effective solution.

Leveraging over 25 years experience in delivering top-class test and programming solutions, JTAG Technologies has responded to customers who increasingly demand greater power in their test systems to perform both structural and functional tests and also program parts 'in-system'. The modular JT 57xxc Combi-Systems allow to build a tester with 'just enough' capability, thus minimising the cost of test.

From CD23 release onwards, multiple instances of controller hardware can be used in a cohesive/unified manner. For example installing four JT 5705/RMIc's into the rack-mount carrier will yield an eight-TAP tester complete with 256 IO channels (224 DIOS, 32 MIOS). JT57xx/RMIc 'combi-systems' are supported by both JTAG ProVision and all run-time software options. You can use the new combi-systems with older software but to take advantage of the extended controller support it is recommended to update to CD release 23.

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JT 57XX/RMIC- CONFIGURABLE RACKMOUNTABLE JTAG INSTRUMENT
Modular controller & I/O system with analog and high-speed options

Specifications Controller Modules

	JT 5705/RMIc	JT 37x7/RMIc	JT 37x7/RMIC-DIO-0	JT 37x7/RMIc-DIO-1
Module size	¼ width	¼ width	½ width	½ width
JTAG TAPs	2	4	4	4
TCK max	15 MHz	40 MHz	40 MHz	40 MHz
Static I/O's		16	16	16
DIOS	56			64
MIOS	8			
Fast Flash Prog	AW signal	17 & 27: ETT & AW 07: AW signal	17 & 27: ETT & AW 07: AW signal	17 & 27: ETT & AVV 07: AW signal
Analog measure	VDC ± 15V (up to 8 chs)			
Analog out	VDC ± 15V (up to 8 chs)			
Frequency measure	0-200 MHz			
Pulse-width measure	4-8192 ns (ch 35)			
Pulse Generator	0-62.5 MHz (ch 33)			

Specifications I/O Modules

	JT 5112/RMIc	JT 5111/RMIc
Module size	¼ width	¼ width
DIOS	56	64
MIOS	8	
Analog measure	VDC ± 15V (up to 8 chs)	
Analog out	VDC ± 15V (up to 8 chs)	
Frequency measure	0-200 MHz	0-200 MHz
Pulse-width measure	4-8192 ns (ch 35)	4-8192 ns (ch 35)
Pulse Generator	0-62.5 MHz (ch 33)	0-62.5 MHz (ch 33)
SCIL reconfigurable	Yes	Yes

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