

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Flasher AR M Rev. 1 (12MHzJTAG)

Please note that the actual speed depends on various factors, such as JTAG, clock speed, host CPU core etc.

## JTAG Speed

There are basically three types of speed settings:

• Fixed JTAG speed

• Automatic JTAG speed

• Adaptive docking

Fixed JTAG speed
The target is clocked at a fixed clock speed. The maximum JTAG speed the target can handle depends on the target itself. In general ARM cores without JTAG synchronization logic (such as ARM7-TDMI) can handle JTAG speeds up to the CPU speed, ARM cores with JTAG synchronization logic (such as ARM7-TDMI-S, ARM 966EJ-S) can handle JTAG speeds up to 1/6 of the CPU speed, JTAG speeds of more than 10 MHz are not recommended.

Automatic JTAG speed Selects the maximum JTAG speed handled by the TAP controller

NOTE: On ARM cores without synchronization logic, this may not work reliably, since the CPU core may be clocked slower than the maximum JTAG speed.

Adaptive clocking
If the target provides the RTCK signal, select the adaptive clocking function to synchronize the clock to the processor clock outside the core. This ensures there are no synchronization problems over the JTAG interface.

NOTE:
If you use the adaptive docking feature, transmission delays, gate delays, and synchronization requirements result in a lower maximum dock frequency than with non-adaptive docking. Do not use adaptive clocking unless it is required by the hardware design.