

Search Degicu



Flasher ARM download speed

```
http://www.segger.com/cms/flasher-arm.html
```

back to top

Flasher ARM Rev. 1 (12MHzJTAG)

Please note that the actual speed depends on various factors, such as JTAG, dock 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 dock 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, ARM946E-S, ARM966EJ-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 dock to the processor clock outside the core. This ensures there are no synchronization problem s over the JTAG interface.

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