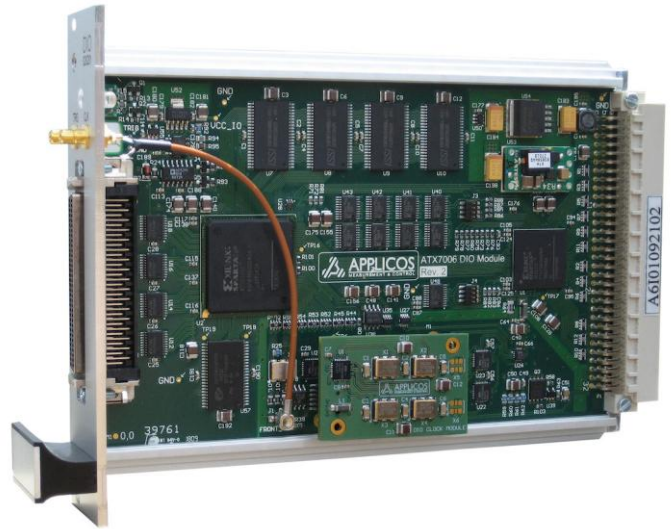


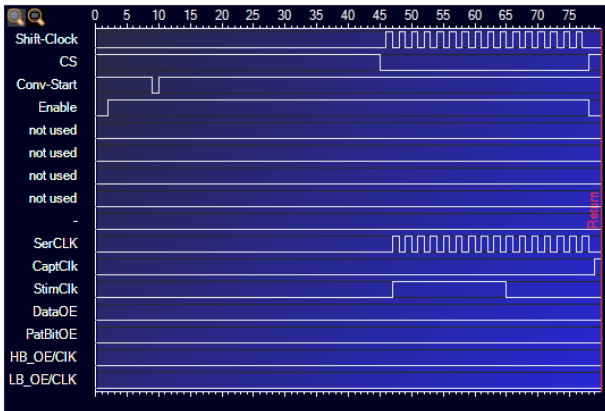
Multimode Digital Source/Capture

DIO

- Multimode Digital Source/Capture module
- Up to 50MHz data rate in low speed mode
- Up to 200MHz data rate in high speed mode
- 20-bit parallel / 24-bit serial capture capability
- 64k x 16 pattern generator (low speed mode)
- Programmable clock delays (high sp. mode)
- Internal Clock generation up to 200MHz
- External clock rate up to 400MHz
- Programmable IO levels
- For ATX series hardware platform



The DIO module is a multimode digital source and capture unit. In Low Speed Mode it provides a 20-bit parallel or 24-bit serial I/O capability running at speeds up to 50MHz. In High Speed Mode, the DIO provides a 16-bit parallel I/O capability up to 200MHz.



Pattern bit example programming

In both Speed Modes, the Clock is generated by a low jitter PLL source that can generate clocks from 2kHz up to 200MHz. In addition an external clock can be provided.

The DIO offers 8 Pattern Bits to the user for DUT synchronization and control. The remaining 8 Pattern Bits are used for control and synchronization of the analog source and capture instruments through the ATX backplane. This allows for coherent mixed-signal measurements improving the accuracy of your measurement without need for "post-process" windowing.

