ImageWriter

STMicroelectronics M95 Device Support Detail & Setup

ImageWriter Support Hierarchy

Manufacturer: STMicro **Library:** SPI-Serial-Memory.cab

Device: M95010, M95020, M95040, M95080, M95128, M95160, M95256, M95320, M95512, M95640

Objects for M95

Flow Object Name:	*Program / Execute*	*Verify*	*Load*	*Object Size (Bytes)*	
EE	●	●	●	M95010	0x80
				M95020	0x100
				M95040	0x200
				M95080	0x400
				M95128	0x4000
				M95160	0x800
				M95256	0x8000
				M95320	0x1000
				M95512	0x10000
				M95640	0x2000
Status Register	●	●	●	0x1	
p_SPI	●		●	0x8[1]	

[1] Default SPI clock frequency = 2 MHz

Physical Layer Connector Setup for M95

ImageWriter:		Target:
Connector Pin #	***Pin Name***	***Connections***
1	GND	GND
2	GND	GND
3	TXD (MOSI/TDO)	D
4	RXD (MISO/TDI)	Q
5	RTS (TMS)	NOCONN
6	CTS	NOCONN
7	XCLK	C
8	RST	!S
9	SCL	NOCONN
10	SDA	NOCONN
11	GND	GND
12	GND	GND
13	VPP/EXT_IN	NOCONN
14	VPP/EXT_OUT	NOCONN
15*	Target V+ (7.0V max)	Supply 4.5-5.5 V
16*	Target V+ (7.0V max)	Supply 4.5-5.5 V
17	GND	GND
18	GND	GND
19	ImageWriter Power	Supply 9-24 VDC
20	ImageWriter Power	Supply 9-24 VDC

*Maximum Pin-Driver output voltage = 4.2V.

Support Notes:

1. A post-programming EE Verify operation is highly recommended to ensure data integrity.
2. Target V+ supply range minimum can vary depending on part. See manufacture documentation for more detail.
3. SPI clock frequency maximum can vary according to device. See manufacture documentation for more detail.
4. !W and !HOLD should be set to Vcc.

Disclaimer

Typical implementation of **ImageWriter** includes but is not limited to external power provision to **ImageWriter**, device access restrictions on the target board, external hardware on the target board, or software changes created by the user affecting timing, device erasure, programming, or verification. Data I/O warranty coverage applies only when the product is used in conformance with technical specifications put forth by Data I/O and by the semiconductor device manufacturer.

In the interest of achieving the highest levels of safety and quality, Data I/O recommends that all programming processes be tested and documented in a prototype project prior to transition to volume manufacturing. For additional information see In-System Programming Design Guidelines (http://www.dataio.com/isp).

ImageWriter programs semiconductor devices through the use of circuits designed precisely to operate in accordance with specifications outlined by the device manufacturer. Provision and calibration of power supplies are critical for proper operation. **ImageWriter** has been fully tested by Data I/O Corporation for quality performance.