

			MIPI D-PHY Version & Adoption Date													
Category	Feature		Mandatory / Optional		v1.0	v1.1	v1.2	v2.0	v2.1	v2.5	v3.0	v3.5		v3.6		
			For FCM	For ECM	4Q 2009	4Q 2011	3Q 2014	1Q 2016	1Q 2017	3Q 2019	3Q 2021	2Q 2023		3Q 2025		
Clock	Clock Mode		–	–	FCM	FCM	FCM	FCM	FCM	FCM	FCM	FCM	ECM	FCM	ECM	
Data Rate (Gbps/Lane)	Standard Channel		–	–	–	–	2.5	4.5	4.5	4.5	9	9	9 (Bands B1, B2, B3, B4)	9	9 (Bands B1, B2, B3, B4)	
	Short Channel		–	–	–	–	–	–	6.5	6.5	11	11	As above	11	As above	
	Legacy Channel		–	–	1	1.5	–	–	–	–	–	–	–	–	–	–
Pins	Minimum Pin Configuration		–	–	4	4	4	4	4	4	4	4	2	4	2	
Updates Done with Increased Symbol Rate	Basic De-emphasis		O	O	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	
	Calibration		M	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Rx Equalization / Alternate Calibration		M	M	–	–	–	–	–	–	✓	✓	✓	✓	✓	✓
	Additional UI Jitter (RCLK Jitter) Specs		M	M	–	✓	✓	✓	✓	✓	✓	✓	✓	–	✓	–
Power Reduction	Unterminated Mode		O	O	–	–	–	✓	✓	✓	✓	✓	–	✓	–	
	Reduced Amplitude “LVLP” Mode option	DC Coupled	O	–	–	–	–	–	✓	✓	✓	✓	✓	✓	✓	
Low Power Mode	Alternate Low-Power Mode: FCM		O	Limited	–	–	–	–	–	✓	✓	✓	–	✓	–	
	Alternate Low-Power Mode: Equivalent Functionality for ECM	DC Coupled	–	Limited	–	–	–	–	–	✓	✓	✓	–	✓	–	
Enhanced Functions	16-bit/32-bit PPI		O	O	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	
	64-bit PPI		O	O	–	–	–	–	–	–	–	–	–	✓	✓	
	Built-In Test		O	O	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Optical Interconnect		O	O	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓
	High Speed Reverse Mode		O	O	✓	✓	✓	✓	✓	✓	✓	✓	✓	–	✓	–
	PHY Generated/Detected Packet Delimiter or ECM Equivalent/Coupling/Skip		–	Version Dependent	–	–	–	–	✓	✓	✓	(HS Idle)	(HS Idle)	–	✓	(HS Idle)
	Fast Lane Turnaround		O	–	–	–	–	–	–	–	✓	✓	✓	–	✓	–
	4m Channel Support, for IoT use cases		O	O	–	–	–	✓	✓	✓	✓	✓	✓	✓	✓	✓
Protocol Specs	MIPI CSI-2 Version		–	–	–	–	v1.2 / v1.3	–	v2.0 / v2.1	v3.0	v4.0	v4.1		v4.2		
	MIPI DSI-2 Version		–	–	–	–	v1.0 / v1.1	v2.0	v2.0	v2.0	v2.0	v2.1		–		