

### Introduction

The CL12661IP Multi-Transmitter converts LVCMOS parallel data of 8-bit into each other channel MIPI –DPHY and SMIA CCP class 0, 1, 2 and DDR serial clock (strobe)/data streams. This chipset is an ideal means to link mobile camera modules Baseband processors. A configurable input pin (CLS) is provided to select different Class (0 or 1, 2) mode inside the SMIA standard specifications. And MIPI-DPHY and SMIA and DDR format mode support for mode pin (MDS). The CL12661IP Transmitter is an ideal means to solve EMI and cable size problems associated with wide, high speed CMOS interface.

### Feature

- Input Clock: 20MHz~125MHz shift clock support
- Output Clock: 80MHz~500MHz, Output Data rate: 160Mbps~1Gbps
- LVCMOS Input, Differential Output
- MIPI-DPHY Ver.1.00.00 / SMIA CCP Class0, 1, 2 compliant
- SMIA CCP Class0, CCP Class1, 2 supports (CLS pin)
- MIPI-DPHY / SMIA / DDR Format support (MDS pin)
- High Speed Rate
 

Parallel Input:		~125MHz (CLKI0~ n, DI0~n<7:0>)
Serial Output:	MIPI-DPHY	~1Gbps (Data0~n+/-, Clk+/-)
	SMIA CCP Class0	~208Mbps (Data0~n+/-, Clk+/-)
	SMIACCP Class1, 2	208~650Mbps (Data0~n+/-, Strb+/-)
	DDR Format	~680Mbps (Data0~n+/-, Clk+/-)
- 1.8V (Option: 2.8/3.3v) supply voltage (Option: 1.0 / 1.2 / 1.8v Logic/Level Shifter)
- Clock Edge Programmable (R\_F pin)
- MSB/LSB Programmable (SBS pin)
- ±150/200mV swing differential signal for low EMI
- Power Down Mode ~1μA (PD pin)

### Block Diagram

