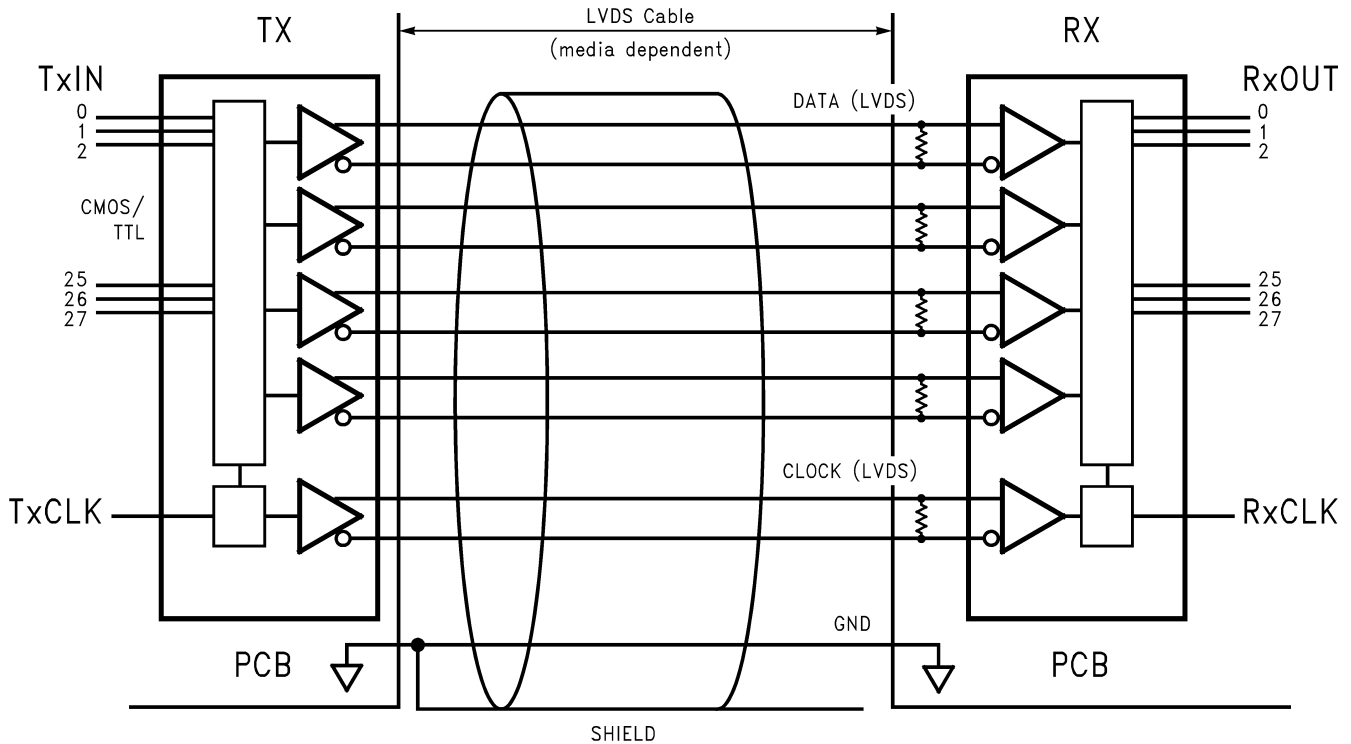


WHAT WE USE NOW:

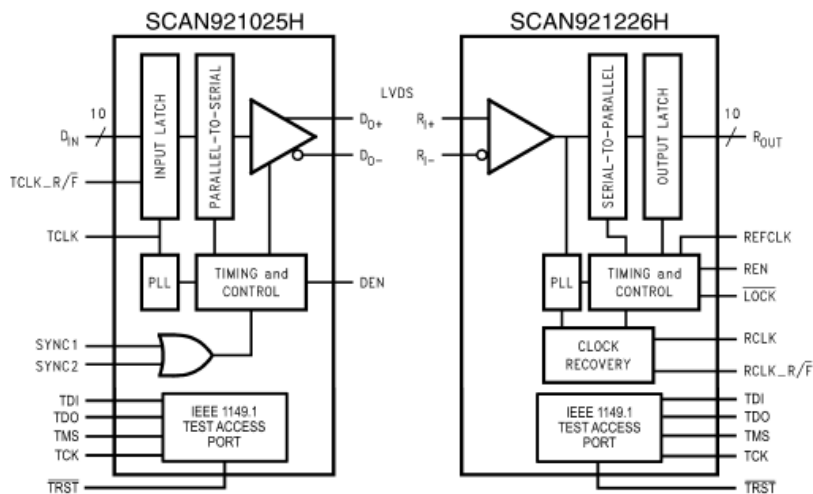
<http://www.national.com/pf/DS/DS90CR288A.html>

28 TTL signals to 4 LVDS couples - it works up to 85 MHz -> 595 Mb/sec. TSSOP56 – 14x 6 mm – 1,1 mm thick.



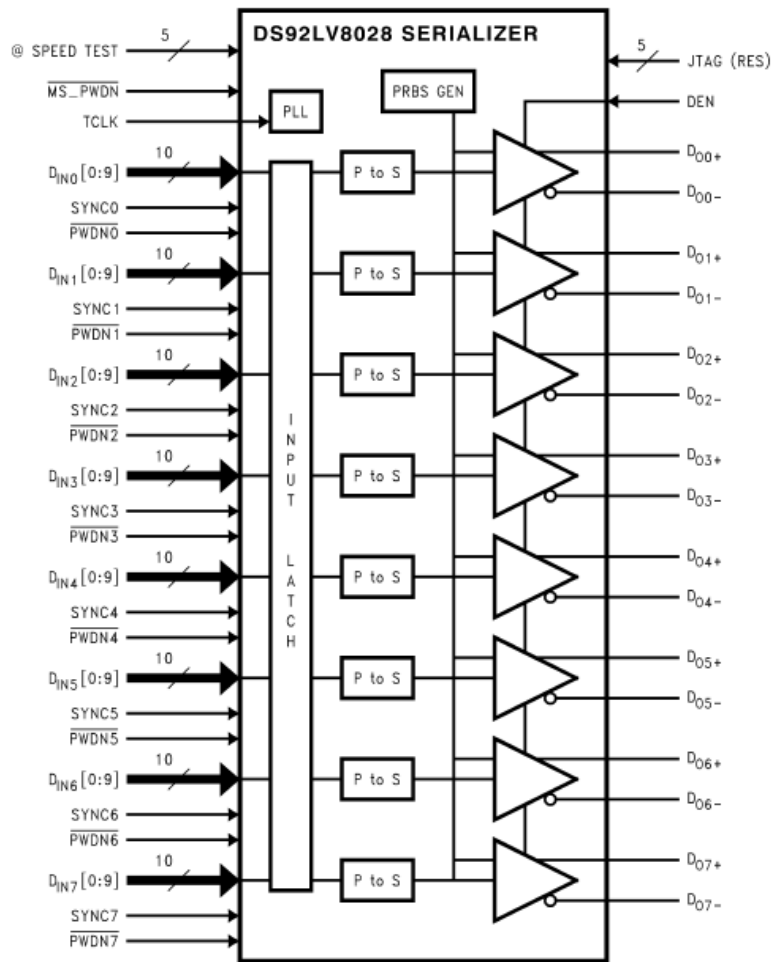
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SCAN921025H and SCAN921226H **20-80 MHz 10 bit bus** to 1 serial LVDS couple + clock transfer and recovery. **JTAG**. Small 49-lead BGA package - 7x7 mm package - 1,4 mm thick



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DS92LV8028 **8 serializers 25 to 66 MHz 10 bit bus** to 1 serial LVDS couple with embedded clock. **JTAG** in next version. 196-pin LPGA package. 15x15 mm package - 1,37 mm thick.

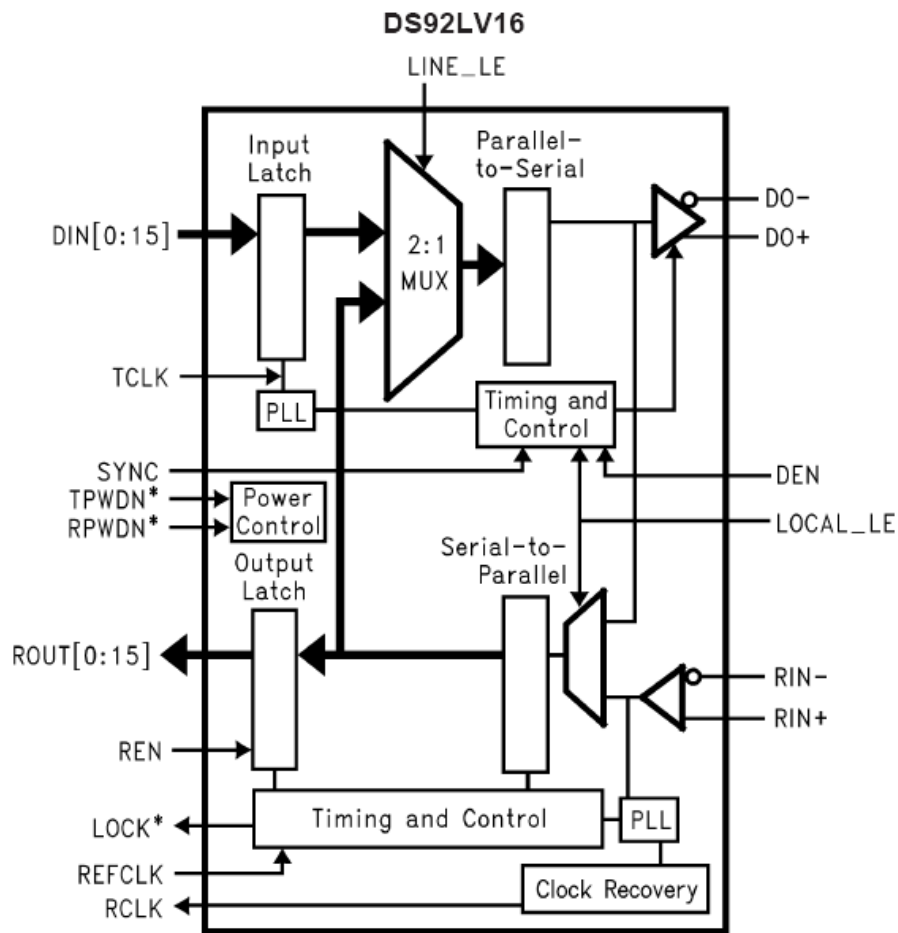


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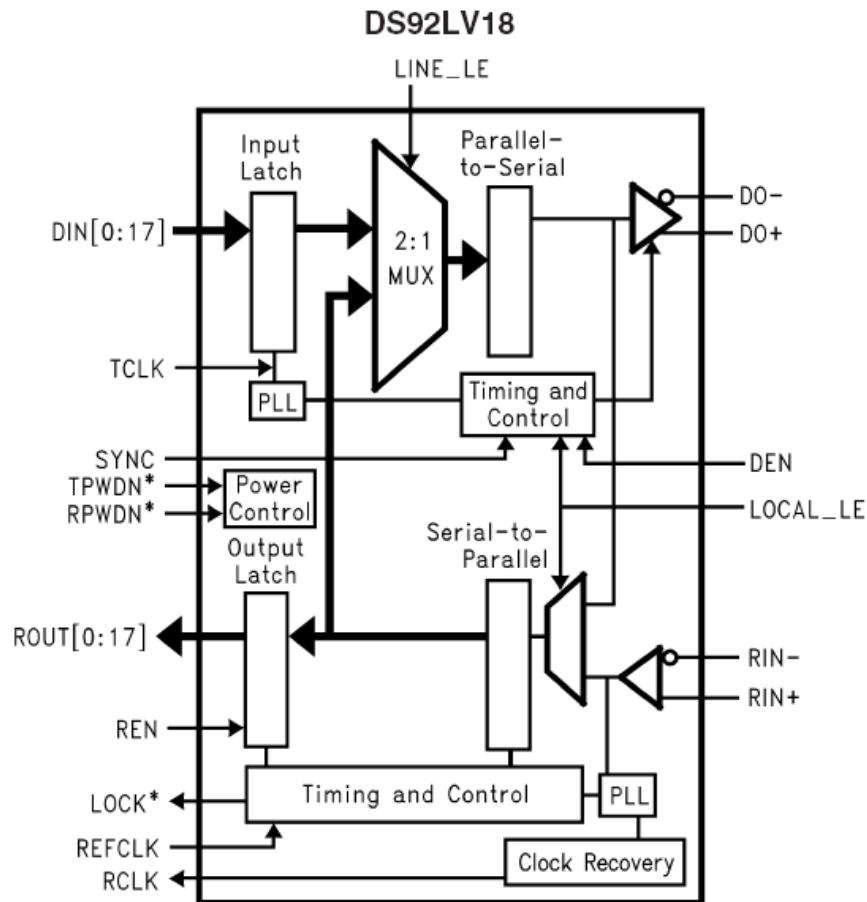
DS92LV16 Serializer/Deserializer (SERDES) -25–80 MHz 16:1/1:16 serializer/deserializer (2.56Gbps full duplex throughput). 80-pin PQFP package 14x14 mm; 1,4 mm thick



20014301

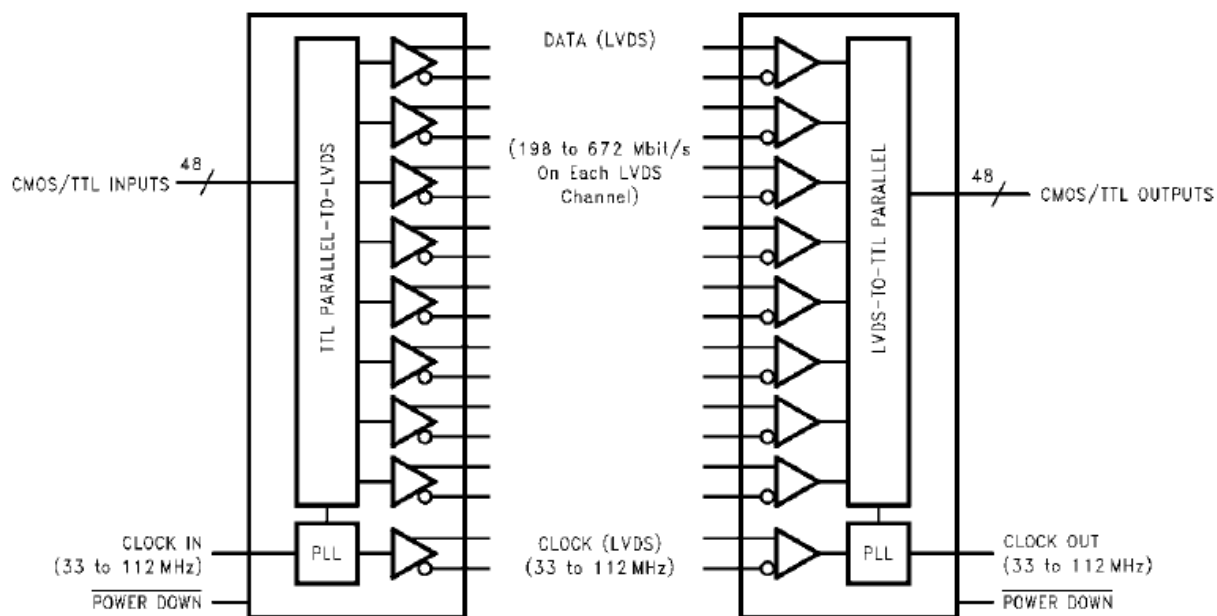
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DS92LV18 **18-Bit Bus** LVDS Serializer/Deserializer - **15-66 MHz** (tot bit trasfer $18 \times 66 = 1,2 \text{ Gb/sec}$ **1,2 GHz**), 80-pin LQFP package, 14x14 mm package, 1,4 mm thick.



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DS90CR483A / DS90CR484A 48-Bit to 8 LVDS couples (7 bit per couple)+ 1 couple per clock transfer
 SER/DES – 33 - 112 MHz, Up to 5.38 Gbits/sec bandwidth

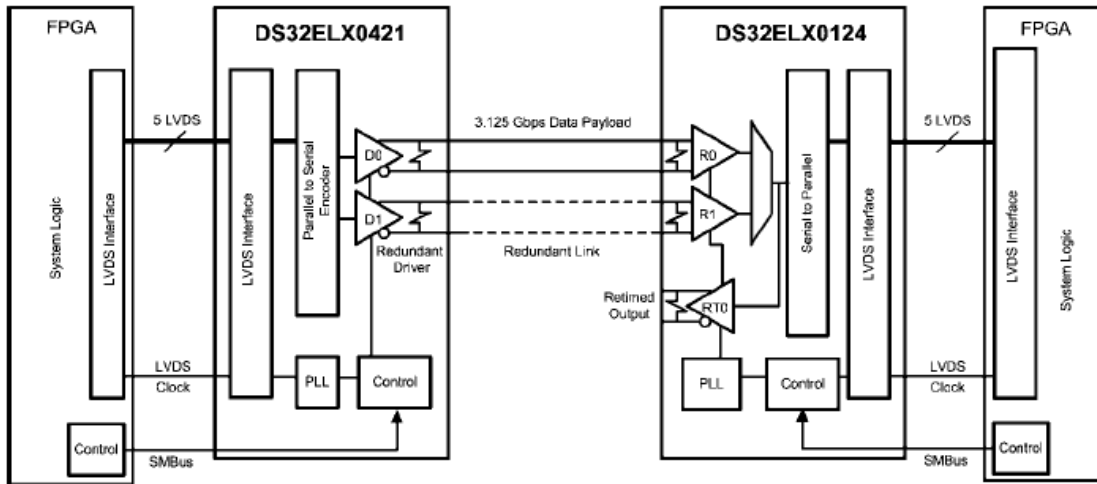


30059201

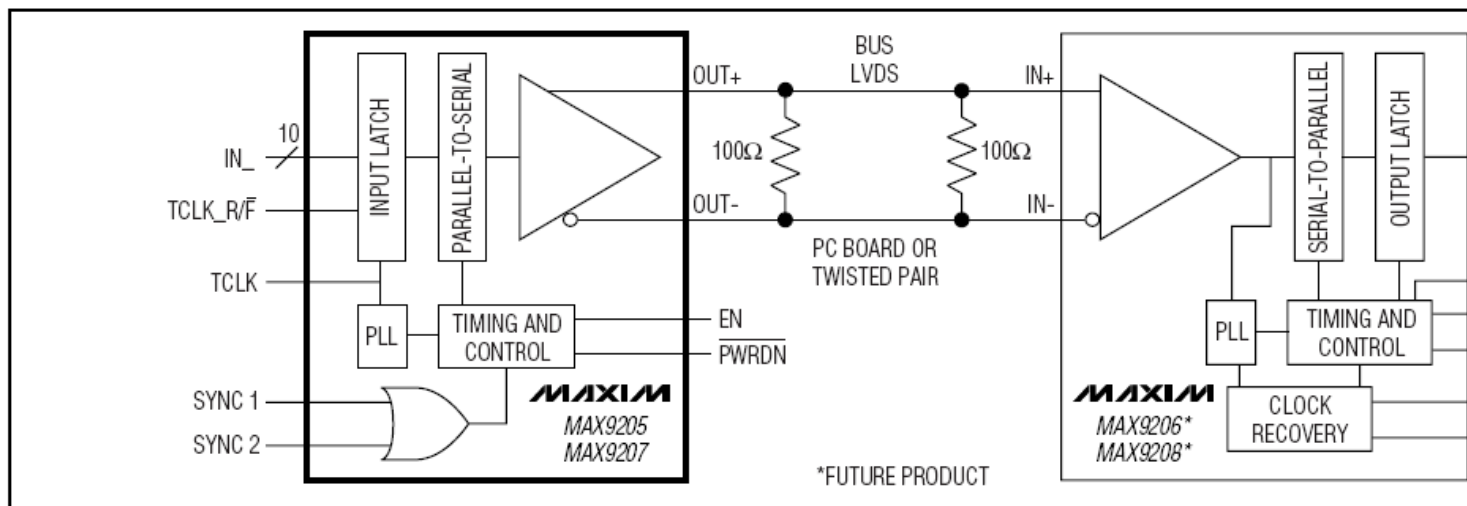
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DS32EL0124 DS32ELX0124 - 1.25 to 3.125 Gbps serial data rate - 125 to 312.5 MHz DDR parallel clock - 48-pin LLP

package with exposed DAP - 7x7 mm, 0,8 mm thick. On a LVDS we can serialize 4 bits at frequency 80 Mhz and so one chip will transfer $5 \times 4 = 20$ bits = 1 bus.



MAX9205/MAX9207 serializers transform 10-bitwide parallel LVCMOS/LVTTL data into a serial highspeed bus low-voltage differential signaling (LVDS) data stream. Wide Reference Clock Input Range 16MHz to 40MHz (MAX9205) 40MHz to 66MHz (MAX9207)- 6,5-10,5 x8 mm; 2 mm thick



Spartan6 High-speed GTP serial transceivers in the LXT FPGAs

- Up to 3.125 Gb/s
- High speed interfaces including: Serial ATA, Aurora, 1G Ethernet, PCI Express, OBSAI, CPRI, EPON, GPON, DisplayPort, and XAUI

XC6SLX25T 2 GTP ilminimo spartan6 **CSG324 15x15**
 XC6SLX45T 4 GTP **CSG324 15x15**
 XC6SLX75T 8 GTP **FG(G)676(3) 27x27 mm**

Cables

http://solutions.3m.com/wps/portal/3M/en_WW/electronics/home/productsandservices/products/interconnectsolutions/ProductCatalog/Products/?PC_7_RJH9U5230GE3E02LECIE20KMT3_nid=F9J9BFD89ZbeJ249BH4P7Kgl