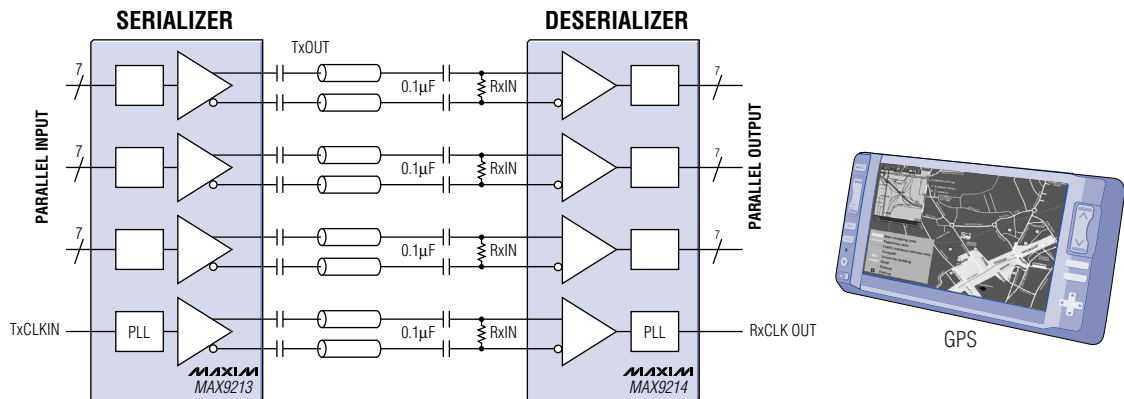


# 21-BIT, DC-BALANCED, LVDS SERIALIZERS/DESERIALIZERS FOR LCDs

Provide Up to 768 x 1024 Resolution for Automotive Applications in DC-Balanced Mode



- ◆ Programmable DC-Balanced or Non-DC-Balanced Operation
- ◆ DC-Balanced Coding Allows AC-Coupling to Tolerate Ground Shift Between Serializer and Deserializer, and Short-to-Battery Protection
- ◆ 10 Meter Cable Drive Capability at 600Mbps Per Data Channel
- ◆ Integrated 110Ω (typ) Serializer Differential Output Resistance in DC-Balanced Mode Reduces Reflections
- ◆ High ESD Protection on LVDS I/Os
  - ◆ IEC61000-4-2 Level 4 ESD (±15kV Air, ±8kV Contact Discharge)
  - ◆ ISO10605 (±25kV Air, ±8kV Contact Discharge)

| Part                 | Parallel Interface (Bits) | f <sub>MAX</sub> DC-Balanced (MHz) | f <sub>MAX</sub> Non-DC-Balanced (MHz) | Non-DC-Balanced Pin-Compatible Upgrade to | Pin-Package |
|----------------------|---------------------------|------------------------------------|--|---|-------------|
| <b>Serializers</b>   |                           |                                    |  |   |             |
| MAX9205              | 10                        | —                                  | 16 to 40                               | DS92LV1021A                               | 28-SSOP     |
| MAX9207              | 10                        | —                                  | 40 to 66                               | DS92LV1023                                | 28-SSOP     |
| MAX9209/11*          | 21                        | 8 to 34                            | 10 to 40                               | DS90CR215                                 | 48-TSSOP    |
| MAX9213/15*          | 21                        | 16 to 66                           | 40 to 85                               | DS90CR217                                 | 48-TSSOP    |
| <b>Deserializers</b> |                           |                                    |  |   |             |
| MAX9206              | 10                        | —                                  | 16 to 40                               | DS92LV1212A                               | 28-SSOP     |
| MAX9208              | 10                        | —                                  | 40 to 60                               | DS92LV1224                                | 28-SSOP     |
| MAX9210/12*          | 21                        | 8 to 34                            | 10 to 40                               | DS90CR216A                                | 48-TSSOP    |
| MAX9214/16*          | 21                        | 16 to 66                           | 40 to 85                               | DS90CR218A                                | 48-TSSOP    |
| MAX9220              | 21                        | 8 to 34                            | 10 to 40                               | Trailing edge; clocking                   | 48-TSSOP    |
| MAX9222              | 21                        | 16 to 66                           | 40 to 85                               | Trailing edge; clocking                   | 48-TSSOP    |

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\*Future product—contact factory for availability.



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