

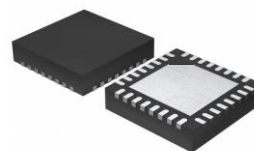
## 37.5MHz~100MHz, 10Bit/12Bit Serializer and Deserializer for 1MP/60fps Camera

### PRODUCT DESCRIPTION

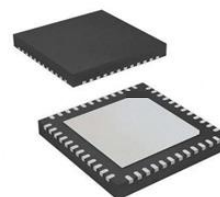
The MS933NA/MS934NA is a 10bit/12bit serializer/deserializer, supporting 37.5MHz~100MHz clock. It supports transmitting high-speed forward and reverse control data on a pair of differential cables. The MS933NA/MS934NA is widely used in car camera, medical device and tube probe applications.

### FEATURES

- Support Image Clock from 37.5MHz to 100MHz
- Single Differential Pair Interconnection
- Optional 10bit/12bit Data Bit Width
- Support Low Latency Bidirectional Control Channel
- 2:1 Multi-channel Modulator  
Used for Selection between Two Input Imagers
- Receive Equalizer with Self-adaptive Cable Loss
- Drive 15 Meters Shielded Twisted Pair (24AWG)
- Four GPIOs
- Lock Output Report Pin and Use Full-Speed Self Test to Validate Link Integrity
- Compatible with 1.8V, 2.8V, 3.3V Parallel Input Interfaces
- 1.8V Single Power Supply
- Temperature Range: -40°C to +85°C
- AEC-Q100 Authentication
- Reduce EMI/EMC for Deserializer
  - Programmable Spread Spectrum Output
  - Receiver Staggered Outputs



QFN32



QFN48

### APPLICATIONS

- Car Camera: Surrounded Camera, Front-view Camera, Rear-view Camera
- Remote Satellite Radar, Laser Radar Sensor
- Tube Probe
- Medical Endoscope

### PRODUCT SPECIFICATION

Part Number	Package	Marking
MS933NA	QFN32	MS933NA
MS934NA	QFN32	MS934NA