

OS8104A In Production Buy it Now



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Quick Links

Please consider this device: OS81050, OS81060. View Side By Side Comparison

Description

The OS8104A is a integrated Network Interface Controller with a full-featured interface to the 25 Mbps MOST® network (MOST25) with an optical physical layer. The OS8104A interfaces directly to a MOST FOT header. This enables MOST data transmission via polymer optical fiber (POF).

All relevant network management on the data link layer level is on-chip, including stream data allocation, synchronization, and network detection. An ultra-low jitter PLL guarantees high quality audio and video transmission and clock recovery over a wide frequency range. Coding is optimized for plastic optical fiber.

The OS8104A works at an ultra-low bit error rate supporting real-time synchronous data traffic of up to 15 stereo channels simultaneously. In addition to the control channel, some of the available bandwidth can be allocated to asynchronous packet data transfer.

Programmable serial and parallel real-time data interfaces with different clock and data modes support various consumer electronic devices such as Codecs, converters and DSPs.

No Image Available

Features

A few highlights

- MOST network interface controller
 - Optimized for a 25 Mbps optical physical layer (POF)
- Enhanced Features (compared to OS8104):
 - Reduced power consumption
 - Variable retry functionality
 - Automatic channel muting
 - Enhanced bypass architecture
 - Increased system jitter tolerance
 - Enhanced PLL features
- 3.3 V operating voltage, inputs tolerant of 5.0 V signal

Parameter Name	Value
MOST Speed Grade	25 Mbps
PHY Type	optical
Interfaces	I2C, I2S, S/PDIF, Parallel
Operating Voltage (V)	3.3
Temperature Range (°C)	-40 to 95
Packages	QFP44, ETQFP44

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Part Number	Device Weight (Grams) each	Shipping Weight (Grams) each	Lead Count	Package Type	Package Width	Solder Composition	JEDEC Indicator	RoHS	China EFUP
OS8104AAQR-D1B	0.343700	0.770000	44	LQFP	10x10x1.4	Matte Tin	e3		
OS8104AAT-D1B-V01	0.273300	190.000000	44	TQFP	10x10x1mm	Matte Tin	e3		
OS8104AATR-D1B-V01	0.273300	0.748333	44	TQFP	10x10x1mm	Matte Tin	e3		

To see a complete listing of RoHS data for this device, please click here

Shipping Weight = Device Weight + Packing Material weight. Please contact Sales office if device weight is not available.