

FEATURES

64x decimation of a stereo pulse density modulation (PDM) bit stream to pulse code modulation (PCM) audio data
 Slave I²S or time division multiplexed (TDM) output interface
 Configurable TDM slots
 I/O supply operation: 1.62 V to 3.6 V
 64x output sample rate PDM clock
 64x/128x/192x/256x/384x/512x output sample rate BCLK
 Automatic BCLK ratio detection
 Output sample rate: 4 kHz to 96 kHz
 Automatic PDM CLK drive at 64x the sample rate
 Automatic power down with BCLK removal
 0.67 mA operating current at 48 kHz and 1.8 V I/OVDD supply
 Shutdown current: <1 μ A
 8-ball, 1.56 mm \times 0.76 mm, 0.4 mm pitch WLCSP
 Power-on reset

APPLICATIONS

Mobile computing
 Portable electronics
 Consumer electronics

GENERAL DESCRIPTION

The ADAU7002 converts a stereo PDM bit stream into a PCM output. The source for the PDM data can be two microphones or other PDM sources. The PCM audio data is output on a serial audio interface port in either I²S or TDM format.

The ADAU7002 is specified over the commercial temperature range (-40°C to $+85^{\circ}\text{C}$). It is available in a halide-free, 8-ball, 1.56 mm \times 0.76 mm, wafer level chip scale package (WLCSP).

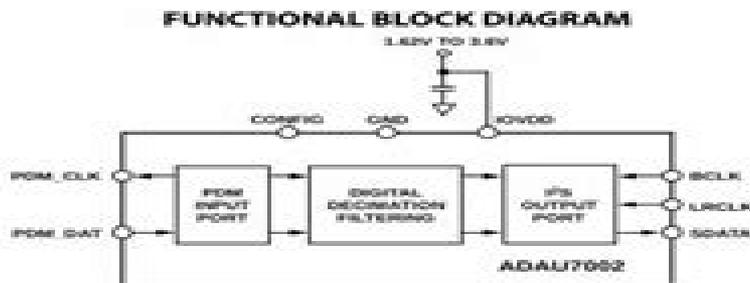


Figure 1.

Rev. A
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Stereo Pdm To I Tdm Conversion Ic Data Sheet Adau7002

Puja Mehta



Stereo Pdm To I Tdm Conversion Ic Data Sheet Adau7002:

The Top Books of the Year Stereo Pdm To I Tdm Conversion Ic Data Sheet Adau7002 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Stereo Pdm To I Tdm Conversion Ic Data Sheet Adau7002 : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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