

TOSHIBA STRENGTHENS COMMITMENT TO THE CONSUMER AUDIO MARKET WITH THE INTRODUCTION OF TOSLINK® OPTICAL MODULES

New Optical Devices Enable Dolby Digital® Surround Sound and Sony DTS® in Set-Top Boxes, DVD Players, Game Consoles and other Consumer Electronics Devices

IRVINE, Calif., Aug. 27, 2001 — Building on its market leadership in the development of next-generation fiberoptic solutions for digital audio, Toshiba America Electronic Components, Inc. (TAEC)* today expanded its line-up of TOSLINK® modules with the introduction of new transmitting and receiving devices. The new TOSLINK modules use optical interconnects to achieve isolation and noise-free operation, enabling clear transmission of the audio signal. In addition, Toshiba's new modules offer the industry's highest rates of transmission enabling Dolby Digital® Surround Sound and Sony DTS® in a variety of applications including set-top boxes, DVD players, desktop and portable computers, digital television, mini-disc players, audio and video receivers, game consoles, and digital tuners.

“Audio quality for consumer electronic devices has greatly improved over the past several years due to the advent of digital satellite systems and digital cable, however consumers are still demanding better quality audio solutions,” said Brach Cox, business development manager, Optoelectronics Devices for TAEC. “With the introduction of the new TOSLINK optical transmitting and receiving solutions, we are responding to those customer requirements to create a higher quality audio solution for the consumer electronics marketplace.”

Technical Features

Toshiba's new TOTX141/TOTX141P and TOTX179/TOTX179P transmitting devices, and the TORX141/TORX141P and TORX179/TORX179P receiving devices are available in standard panel mount and mini-mount modules. The new TOTX179S and TORX179S transmitting and receiving devices are available in the middle mount package module.

The TOTX141/TOTX141P transmitter offers designers the highest transmission rate currently available for digital audio applications, with a data rate of direct current (DC) to 15 megabits per second (Mbps) NRZ, enabling up to 5.1 channels of clear digital audio which is required for Dolby Digital Surround Sound, Sony DTS and other high-definition audio transmission formats. In addition, the TOTX141/TOTX141P transmitter offers a nominal voltage of 3.0 volts (V). The TORX141/TORX141P receiving module is highly sensitive and has a data rate of 0.1 to 15Mbps with a nominal voltage of 3.0V. The minimum receivable power for the receiver is -27 decibels per meter (dBm).

Toshiba's TOTX179/TOTX179P and TOTX179S transmitters have a high data rate of DC to 12.8Mbps, surpassing most competitive solutions in the marketplace and supporting Dolby Digital Surround Sound. Like Toshiba's TOTX179 transmitters, the TORX179/TORX179P and TORX179S receiving modules have one of the industry's highest data rates ranging from 0.1 to 12.8Mbps. The transmitting and receiving modules have a supply voltage of 4.75 to 5.25V.

Specifications, Pricing and Availability

Package	Part Number	Data Rate (Mbps)	Supply Voltage (V)	Pricing	Availability
Standard Panel Mount	TOTX141	DC to 15Mbps	2.7 to 3.6V	<\$1 to \$3 in volume quantities	Mass Production (MP) - Now
Standard Panel Mount	TOTX179	DC to 12.8Mbps	4.75 to 5.25V	<\$1 to \$3 in volume quantities	MP - Now
Standard Panel Mount	TORX141	0.1 to 15Mbps	2.7 to 3.6V	<\$1 to \$3 in volume quantities	MP - Now
Standard Panel Mount	TORX179	0.1 to 12.8Mbps	4.75 to 5.25V	<\$1 to \$3 in volume quantities	MP - Now
Middle Mount	TOTX179S	DC to 12.8Mbps	4.75 to 5.25V	<\$1 to \$3 in volume quantities	MP - Now
Middle Mount	TORX179S	0.1 to 12.8Mbps	4.75 to 5.25V	<\$1 to \$3 in volume quantities	MP - Now
Mini-Mount	TOTX141P	DC to 15Mbps	2.7 to 3.6V	<\$1 to \$3 in volume quantities	MP - Now
Mini-Mount	TORX179P	DC to 12.8Mbps	4.75 to 5.25V	<\$1 to \$3 in volume quantities	MP - Now
Mini-Mount	TORX141P	0.1 to 15Mbps	2.7 to 3.6V	<\$1 to \$3 in volume quantities	MP - Now
Mini-Mount	TORX179P	0.1 to 12.8Mbps	4.75 to 5.25V	<\$1 to \$3 in volume quantities	MP - Now

About TOSLINK

TOSLINK is a registered trademark name of Toshiba Corp., which was the first company to offer fiber optic transmitters and receivers. TOSLINK offers an optical solution for transmitting data allowing it to be used in applications including digital audio, industrial automation, and home appliance networking.

For Digital Audio, Toshiba has standardized this lineup in the TOTX179 and the TOTX141 series. TOSLINK for digital audio applications comes in three different packages: Panel Mount, Medium Packages, and Mini Packages.

*** About TAEC**

Toshiba America Electronic Components, Inc. (TAEC) offers the industry's broadest line-up of semiconductor, display and storage solutions for the computing, wireless, networking and digital consumer markets. Combining quality and flexibility with design engineering expertise, TAEC brings advanced next-generation technologies to its OEM customers.

TAEC is an independent operating company owned by Toshiba America Inc., a subsidiary of the \$54 billion (FY 1999 recorded sales) Toshiba Corp., the second largest semiconductor company worldwide in terms of global sales for the year 2000. Toshiba Corp. is a world leader in high-technology products with more than 300 major subsidiaries and affiliates worldwide. For additional company and product information, please visit TAEC's web site at chips.toshiba.com. For technical inquiries, please e-mail Tech.Questions@taec.toshiba.com.

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