



The FM sound generator chip that endowed multimedia and cellular phones with high-definition melodic sound

Registration No.	Number 00285		
Registration Date	September 10, 2019	Registration Category	Category 1

Name (Model, etc.)	【FM Sound Generator LSI】 (1) YM3526 (2) YMU757
Location	Hamamatsu-shi, Shizuoka Yamaha Corporation
Owner (Custodian)	Yamaha Corporation
Manufacturer (Company)	(1) Nippon Gakki Co., Ltd. (now Yamaha Corporation) (2) Yamaha Corporation
Year Manufactured	(1) 1986 (2) 2000
Year first appeared	(1) 1984 (2) 1999
Reason For Selection	YM3526 (1) is the frequency modulation (FM) synthesis of sound generation—a method developed for electronic musical instruments that creates various sounds using the carrier and the modulator—turned into one chip. It is an LSI device that met the specifications required for Japan’s CAPTAIN system and teletext apparatus. YMU757 (2) achieved further miniaturization, with the progress in semiconductors, and was developed as a sound generator LSI for cellular phones. It achieved higher sound quality and function, helping to proliferate FM sound generation. Application manuals, principles of operation, design drawings, and other supporting resources are also preserved for both these resources. It is valuable as an LSI that was very widely used and contributed to acoustic performance and increased function of apparatuses as the sound source in numerous electronic apparatuses.
Registration Standard	1-B (Show a uniquely Japanese scientific or technological development from an international perspective.) 2-C (Show an important event or phenomenon in the relationship between society and culture on the one hand and science and technology on the other.)

Open/Closed to Public	Open to public
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Photo (1)	(2)
	
Other useful information	