The first in the industry: Achievement of simultaneous decoding of 2 CHs audio.

# Lowest Power Consumption , DAB baseband signal processing LSI:MN66720UC

#### Semiconductor Company, Matsushita Electric Industrial Co., Ltd.

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#### What is DAB (Digital Audio Broadcasting)?

Digital Audio Broadcasting, developed by the Eureka (European Research Coordination Action) 147 project and defined by ETSI as a standard.



#### Characteristics of DAB

- High Quality Sound (get closer to the sound quality of CD:MPEG1 Layer 2
- Multi Channel (Multiple programs are broadcast within a single frequency as a multiplex.)
- Letters broadcasting , Data service



#### Activities



#### Characteristics of Digital Audio Broadcasting

Analog radio- One program within a single frequency.



Digital Radio (DAB) - Multiple programs are broadcast within a single frequency as a "multiplex" (Music, data, etc.).



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#### 2-channel simultaneous audio decoding

Feature(1) :Simultaneous decoding of 2 CHs out of the programs broadcasted by time-division is possible.



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#### Pioneering the battery-driven portable receivers

Feature(2):Lowest power consumption in the industry Feature(3):Smallest 3-chip composition in the industry



#### Base technology

- (1) Hybrid architecture which makes high performance and low power dissipation.
- (2) ASSS System that automatically activates the decode circuitry only for those symbols required for the service being listed to.
- (3) Mixed technology of DRAM with analogue which builds in peripheral circuits.



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#### Hybrid architecture for high performance and low power dissipation



ASSS System that activates the decode circuitry only for those symbols required for the service being listened.



Only the program wish to be listened is automatically selected and decoded. During unselected program, the decoding stops.

Low power consumption \*ASSS System(Automatic Symbol Selection System) Semiconductor

#### Mixed technology of DRAM with analogue which builds in peripheral circuits



#### Conclusion

<u>2-channel simultaneous Audio decoding</u>
<u>Smaller size, Low Power Consumption</u>



Developed Low Power consumption DAB base-band signal LSI (May 2001 Matsushita Electric Industrial) • Promotion of DAB speed

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• Breakthrough of the

portable receivers

#### Shipping of samples will start from end of May, 2001.