

ISDB-T Applications

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(TBS)





ISDB-T is filled with leading-edge technologies to make your dreams come true!





Contents

- □ ISDB-T Features
- □ Data broadcasting
- One-Seg Service for Mobile Devices
- □ Interactive Shopping Service

for STB

- □ Interactive Shopping Service for Mobile
- □ One-Seg Promotion Video





Powerful applications

HDTV

Data broadcasting

Mobile accesses



• High quality image on wide screen and CD quality sound.



• Local news and weather forecast for viewers at any time.



• Transmission service to Mobile accesses

Multi-channel program







• Standard quality multi-channel service

Interactive TV



Offers Interactive service

Digital broadcasting experts group



HDTV (1)

High Definition Television Program

- ✓ 1920*1080 high resolution is very impressible feature in ISDB-T.HDTV is a killer application.
- √ You can touch the beautiful and high quality image at the demonstration corner.



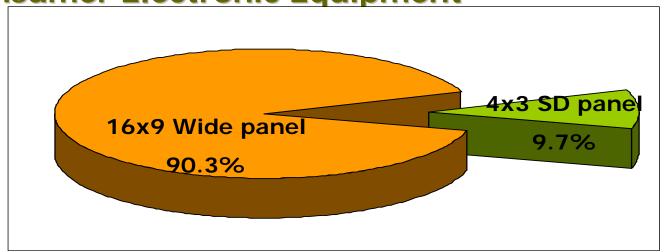




HDTV (2)

More than 90% of TV sets on the market have a16x9 wide panel.

■JEITA 2006 Domestic Shipments of Major Consumer Electronic Equipment



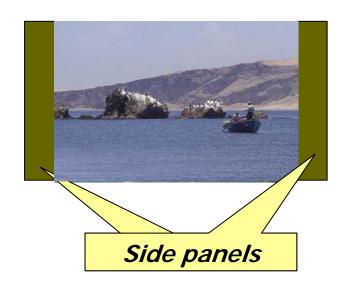
□ Wide panel TV sets have been the mainstream.

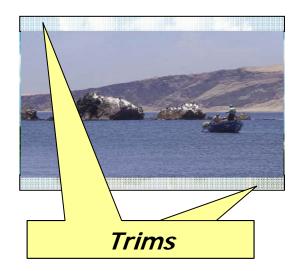




HDTV (3)

On a wide panel TV set, standard definition programs are displayed either with side panels or trims.









Multi channel program

□ ISDB-T can transmit multiple SD programs simultaneously on a single digital spectrum.





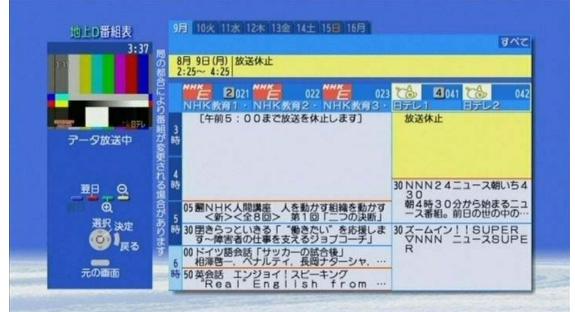






EPG(1)

- □ EPG (Electronic Program Guide)
 - ■An Electronic Program Guide (EPG) is an interactive schedule of current and upcoming programs that a viewer can display on-screen simply by pressing a button on his remote control unit.





BS 161

2月 5日(水) 14:00~14:55

無料 テピビ 11251

私の運命「遺言」

EPG(2)

□ EPG provides a lot of program information, and you can book recording programs with remote easily.





番組内容





Data broadcasting



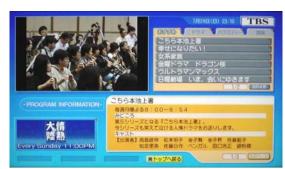


Data broadcasting (1)

- □ Data broadcasting is a useful additional service.
 - By clicking on d-button of a remote control unit, you can access your requested information such as local weather forecast, 24H news and information linked to on-air programs.







Local weather forecast

Local news

Information linked to on-air program





Data broadcasting (2)

- □ 2 types of data services:
 - Non-linked contents
 - Information service not linked to onair programs
 - Accessible any time
 - Program-linked contents
 - Information service linked to on-air programs
 - Accessible during on-air





Data broadcasting (3)

□ Basic page format Present time and date



Buttons to select the following contents

- *Traffic information
- *earthquake information
- *event information
- **DIBEG***shopping information

- *help
- *Internet contents
- *Movie Information
- *Recommendations
- *Weather forecast
- *News
- *Sports 14 etc...

Digital broadcasting experts group



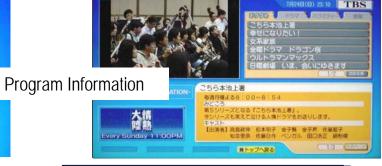
Today's recommendation

Data broadcasting (4)

□ Non-linked contents









News



Weather forecast



Data broadcasting (5)

□ Program-linked data contents

On-air program



Click on d-button



Basic page format



Linked data page format



Click on a program title







Data broadcasting (6)

□ Program-linked interactive contents

On-air program: Interactive Quiz Program

Answering Button



Linked data page

remote



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Click a correct answer with these colored button!!

One-Seg service for Mobile Devices 11 92000









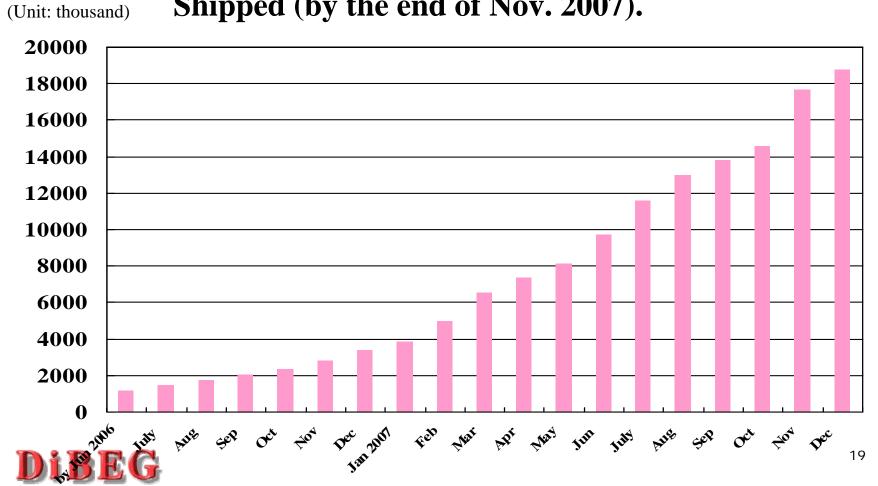




One-Seg service (1)

Digital broadcasting experts group

18.8million One-Seg Mobile receivers were Shipped (by the end of Nov. 2007).





One-Seg service (2)

□ The One-Seg service is transmitting moving images to cell phones, car TVs, personal computers etc. so that you can enjoy digital terrestrial television programs anytime anywhere.

□ Merits

- ✓ Stable reception in a mobile environment.
- ✓ High quality video & audio in a mobile environment.
- ✓ Robustness against noise and multi-pass.





One-Seg service (3)



- □ Video (H.264)
 - approx. 180-256kbps 320×240 or 180
 - 15 fps
- Audio (AAC-SBR)
 - approx. 32-64kbps
- □ Data-cast (BML)
 - approx. 20-80kbps



One-Seg service (4)



On-air program

Example parameters Modulation QPSK Code Ratio 2/3 Guard Interval 1/8

Bit Rate 416 Kb/s

Display Image



Data service





One-Seg service (5)

No-linked data broadcasting content





Weather Forecasts





One-Seg service (6)



No subscription fee and Powerful television contents



Unique & Unparalleled Feature in the world





One-Seg service (7)

Example of business model

□Additional information service

The service can show additional information linked to on-air programs such as information on athletes and celebrities, recipes, questionnaire and quiz.

□TV shopping

The service enables viewers to purchase commercial goods shown on shopping program.

□ Local service

The service can provide local information such as emergency alerts, local events, notice from local government or hospital.





One-Seg service (8)

One-seg receiver











E-Dictionary





Audio player



Interactive internet contents 3 TBS for STB









Interactive internet contents(1)

□ Interactive Shopping Contents

On-air program

data broadcasting content



The entrance to the interactive shopping service





Interactive internet contents (2)

□ Interactive Shopping Contents





Interactive internet contents(3)

☐ You can buy goods directly!!

On-air program

Input personal data





Interactive internet contents Lines for Mobile



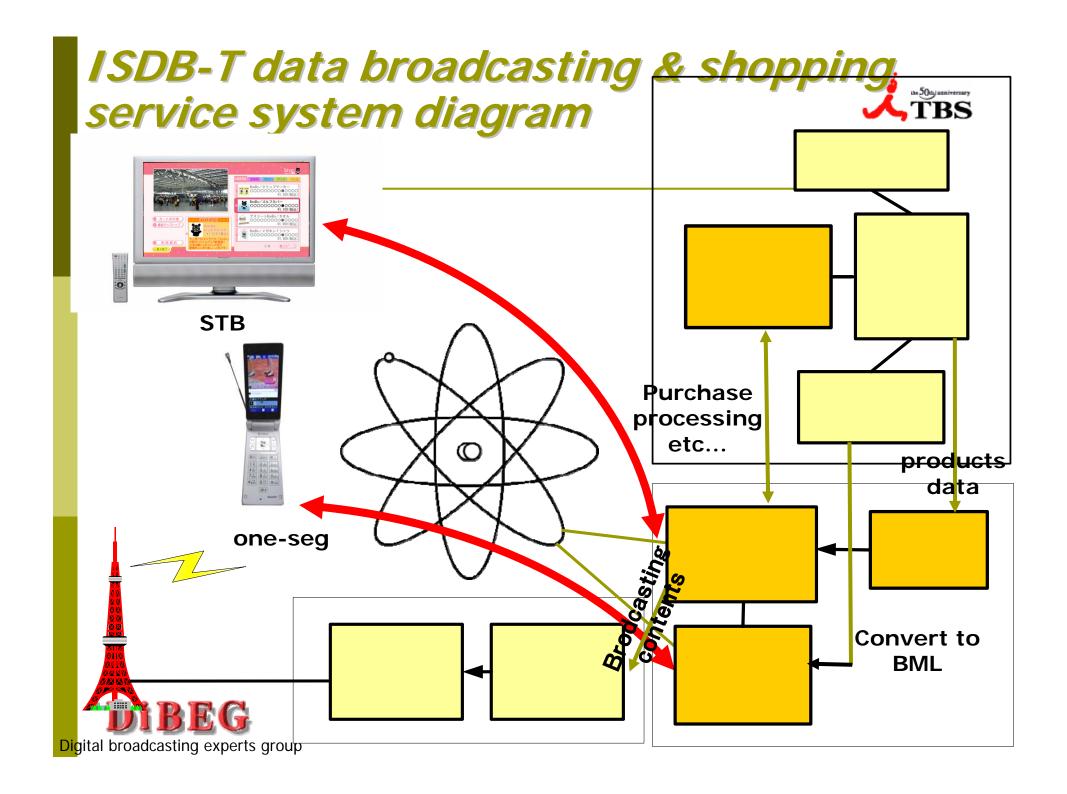


Example of data broadcasting & interactive shopping





cart image





One-Seg service promotion video

Enjoy the promotion video of One-Seg!!





ISDB-T seminar in Lima



Thank you for your attention!



DIBEGDigital Broadcasting Expert Group

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