

# **MDVB-T TV Receiver ( Portable / Car Use )**

**Model : DVBT-606**



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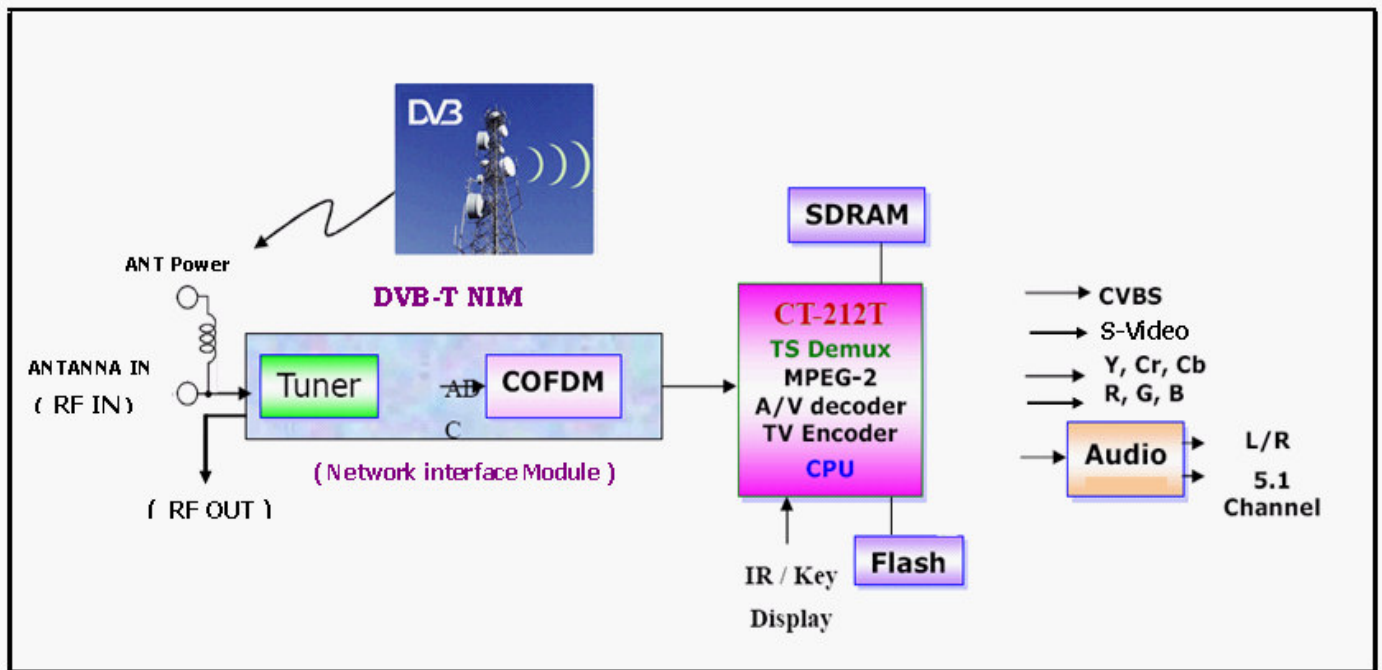
# 1. Introduction

This DVB-T TV Receiver is a Free-To-Air digital terrestrial receiver, allowing you to access free-to-air digital terrestrial TV channels and radio broadcasts on your TV set. Its digital reception covers VHF & UHF band. Compared with the analog TV programs, digital TV programs eliminate the noise and interference but offer high quality video and audio. An on-screen initial installation guide is provided so that you can easily start to enjoy watching the programs. In addition, a fully featured remote controller is included that offers you access to every feature with a simple press of a button.

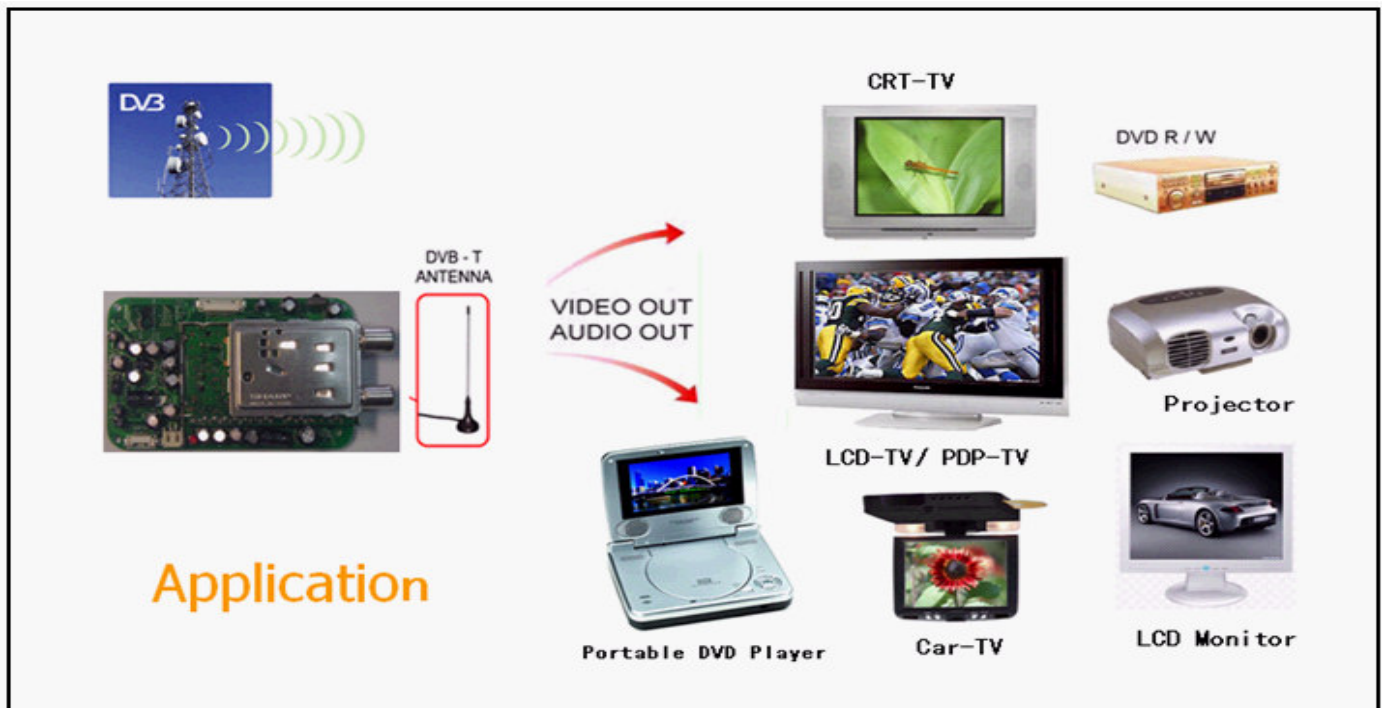
# 2. Features

- **ETSI EN 300 744 DVB-T Compliance**
- **Bandwidth of 6/7/8MHz supported**
- **Automatic/manual channel search**
- **High speed signal receiving capacity (16QAM – 120Km/H )**
- **Doppler effect resisted**
- **Low power consumption : 2.67 W ( Operating mode )  
1.87 W ( Standby mode )**
- **Mini size : 100 mm (length) × 60mm (width) × 15.5mm (height)**
- **Multiple-language OSD  
(English, French, German, Italian, Spanish , Portuguese and Dutch)**
- **Supports remote control**
- **NTSC/PAL converting automatically and manually**
- **EPG (Electronic Program Guide) and Teletext function and supports subtitle**
- **9-channel surf and support Channel edit, moving and deletion**
- **Parental lock control**
- **SDTV only**

### 3. System Block Diagram



### 4. Application







## 7. Connections

### 1. ANTENNA IN ( RF IN ) :

Connect your DVB-T Antenna to the **RF IN** connector on the receiver.

### 2. RF cable connection (optional):

Use a RF cable (not provided) to connect the **RF out** connector on the receiver to the RF input connector on the TV. If this RF loop-through connection is made, you can switch your TV set to appropriate "TV mode" to watch analog TV programs when required. Refer to your TV set's manual for instructions on changing TV mode.

**3. A/V connection ( AV Jack -2.5 mm ) :** Using the provided A/V cable, connect the audio/video out connectors to the audio/video in connectors of a TV set. You can optionally connect the audio signal to your stereo set. Make sure you connect the plugs with corresponding colors (red for right audio, white for left audio and yellow for video).

**4. DC jack 5V ( 2.5 mm ) :** Hook the DC 5V power adaptor to the outlet, and connect the output of DC power cord to the **DC 5V / 1A** socket.

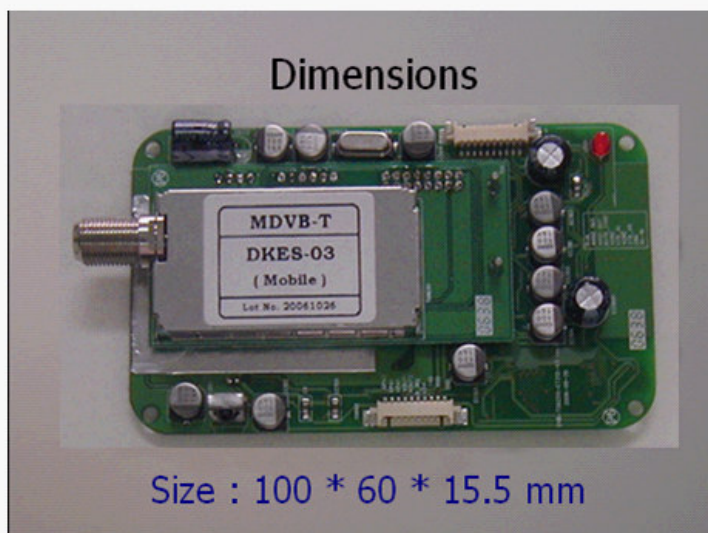
**Caution:** Make sure to check the voltage specification of the wall outlet is the same rating with the power adapter.


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**5. Keypad control :** Power / Mute / Channel up / Channel down / Volume up / Volume down .

## 8. MDVB-T Solution

## 9. Remote Controller - 24 Keys



Key	Description
 <b>POWER</b>	To switch between power On / Standby mode .
TV/AV	To switch between TV / radio channels.
0-9	To enter channel number or value in on-screen menu.
<b>MUTE</b>	Press once to turn the sound off and press it again to restore the sound.
<b>CH+ / CH-</b>	Goes to previous/next channel. Moves cursor up/down in on-screen menu.  * Also referred to as <b>Up / Down</b> throughout the manual.
<b>Vol + / Vol -</b>	Increases/decreases volume. Moves cursor right/left in on-screen menu.  * Also referred to as <b>Right / Left</b> throughout the manual.
SELECT	Activates the highlighted menu item. Displays program list window.
<b>MENU</b>	Displays on-screen menu. Returns to previous menu.
RETURN	Returns to previous screen.
DISPLAY	Displays information of the current channel.

While using the on-screen-menu, **RETURN** and **MENU** keys are used to exit from the current menu and the changes, if any, will always be saved.

If the **SELECT** button is provided upon a setup item, you must press **SELECT** to activate the changes, otherwise changes will not be saved.

## 10. DVB-T Tuner Receiver ( Mobile ) – Portable DVBT-606



Accessory

( 1 ) AV Cable

( 2 ) Antenna

( 3 ) IR Receiver Cable

( 4 ) Cigar plug

( 5 ) Remote Controller

## 11. Specifications

<b>Tuner input</b>	
Frequency range	VHF : 149.5 ~ 426 MHz , UHF : 434 ~ 858 MHz ( Center frequency )
RF input impedance	75 Ohm
Channel bandwidth	6/7/8 MHz
Connectors	IEC female connector ( RF IN ) , IEC male connector ( RF OUT )
Input signal range	Better than -90dBm, depending on the system parameters used
<b>Demodulator</b>	
FFT mode	2K/8K
Modulation	QPSK, 16-QAM, and 64QAM
Guard interval	1/32, 1/16, 1/8, 1/4
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
<b>Video</b>	
Video decoding	MPEG II MP @ ML
Video formats	720x576 (PAL) / 720x480 (NTSC)
Video encoder	NTSC/PAL
Video output	CVBS/S-Video/RGB/VGA/YCbCr/YPbPr/CCIR601/CCIR656
<b>Audio</b>	
Audio decoding	MPEG II, Layer I/II
Sampling frequency	32K/44.1K/48KHz
Audio output type	Stereo / mono-left / mono-right

<b>Power</b>	
Input voltage	DC 5V , 1A ( Typical ) 2.0 Pitch * 2 pin - J101
Operating mode	2.67 W
Standby mode	1.87 W
<b>S/W feature</b>	
Multi language	English/ German/ French/ Portuguese/ Spanish/ Italian/ Dutch
Control	On-Screen Display Control
EPG	optional
CH.SURF	Display 9-channel Preview screen
TV / RADIO	To switch between TV / Radio channel
Teletext	optional
<b>I/O interface</b>	
CVBS / Audio R-L	1.25 Pitch * 5 pin ( AV OUT ) - CON301
Infrared remote control	NEC/RC5 format
RS-232 serial port	Software upgrade
Keypad	Power/Channel up/Channel down/Mute / Audio up/ Audio down - CON102
<b>Dimension</b>	
W x L x H	6 cm * 10 cm * 1.55 cm