

CONTENTS

| | |
|------------------------------------|---|
| 1. Rear Panel. | 2 |
| 2. Connection. | 2 |
| 3. Front panel | 3 |
| 4. Operating Instructions..... | 3 |
| 5. Specification of Hardware. | 5 |

1. Rear Panel.



1. RF OUT: RF output terminal.
2. USB: USB 2.0, connect to USB for software upgrade or configuration data upgrade and backup.
3. HD IN: For HDMI signal input.
4. DC 12V/1A: For connection of an external 12V adapter.

2. Connection.

1. Connect an HDMI Cable from HDMI source device to the HD IN.
2. Connect an RF Cable from RF OUT to the RF network.
3. Connect the power supply to the DC 12V.

3. Front panel



1. Left button: Backward selection.
2. Right button: Forward selection.
3. Up button: List up selection.
4. Down button: List down selection.
5. MENU/OK: One time press: "MENU" button, two times press: "Confirm" button.
6. LOCK: 1. Locks the use of the buttons. "LOCK" led lights up when pressed one time for locking. To release lock state, press again.

4. Operating Instructions.

4.1 Output channel setup

Press "OK" button, and the LED display "CHXX". Press "UP" or "DOWN" button to select the desired output channel, press "OK" button and on the display appears "YES", press "OK" button again to confirm, if you don't want save, you can press "RIGHT" or "LEFT" button to select "NO".

Because the display is only 4 LED, cannot do more settings on modulator, for the other parameters, you can back up the configuration files (jedi_config.txt) to USB and edit it on PC, please refer to 4.5 in this document.

4.2 RF level setup

Press “OK” button to enter setup. Use “RIGHT” or “LEFT” button to select “rF” option. Press “UP” or “DOWN” button to select RF level, press “OK” button and on the display appears “YES”, press “OK” button again to confirm, if you don’t want save, you can press “RIGHT” or “LEFT” button to select “NO”.

4.3 Turn off LED display

Press “OK” button to enter setup. Use “RIGHT” or “LEFT” button to select “OFF” option. Press “UP” button to turn off the led display. Press “OK” button again to activate the led display again.

4.4 Reset to Factory default values

Press “OK” button to enter setup. Use “RIGHT” or “LEFT” button to select “rSEt” option. Press “UP” button to start reset to factory default values. The display will appear “SUCC” when the procedure is completed.

4.5 Save configuration to USB

Press “OK” button to enter setup. Use “RIGHT” or “LEFT” button to select “CFG” option. Press “UP” button to start saving process and then the display will appear “SUCC” when the procedure is completed.

4.6 Software Version

Press “OK” button to enter setup. Use “RIGHT” or “LEFT” button to select “VEr” option. Press “UP” button to display the software version.

4.7 How to upgrade software or configuration file

- 1: Copy the “jedi.img” or “jedi_config.txt” file to the USB device.
- 2: POWER OFF the modulator.
- 3: Plug the USB device into USB port on the back of the device.
- 4: POWER ON the modulator.
- 5: When on the LED display appears “UP00”(means software) or “UP01”(means config file), press “OK” button to start upgrade process.

Upgrade procedure will finish after 10 seconds approximately.

WARNING! DO NOT power off the modulator while upgrading!! Damage to the device may occur!

If you do not want to upgrade software or configuration file, press “UP” or “DOWN” button to select “NO” and press “OK” button to end upgrade submenu.

5. Specification of Hardware.

| Class | Sub class | Designation | Expected Features |
|---------|------------|-------------------------------------|--|
| Encoder | Processor | Processor frequency | Host CPU: 200MHZ 32Bits RISC Security Processor: 200Mhz 32Bits Audio Processor: 200MHZ 32Bits |
| | Memory | RAM | DDRII 16bit 512Mbits x1 (Embedded) |
| | | Flash | NOR Flash 32Mbit x1 |
| | Video | Video encoder | ISO/IEC 11172-2 MPEG1 ISO/IEC 13818-2 MPEG2 MP@HL ISO/IEC 14496 MPEG4 Compliant Support SP@L3 to ASP@L5 ISO/IEC 14496-10 AVC, HP@level4.1 , MP@level4.1 H.264 profile 0 JPEG base-line, progressive |
| | | Aspect Ratio | 16:9 wide screen, 4:3 letter box, 4:3 pan scan, support AFD(DTG, Ming DTG) |
| | | Resolution | 1080i, up to 1080p@30FPS |
| | Audio | Audio encoder | MPEGI layer1/2, MPEGII Layer II AAC LC, HE-AAC v1/v2 (2-CH) |
| | Modulation | | Output frequency range |
| | | Output impedance | 50Ω |
| | | Output impedance(Loop to Output) | 50Ω |
| | | Forward Error Correction | 1/2, 2/3, 3/4, 5/6, 7/8 |

| | | | |
|-------------------|-----------|--|--|
| | | (FEC) | |
| | | Guard Interval | 1/4, 1/8, 1/16, 1/32 |
| | | Constellations | QPSK, 16QAM, 64QAM |
| | | RF Output Level | Default: 90dBuV Adjustable: 0 to -14dB 0 to +6dB |
| | | Band Wide | 7MHZ(VHF), 8MHZ(UHF) |
| | | FFT | 2K, 8K |
| | | Reed Solomon | 202, 188, T=8 |
| | | Symbol rate range | Up to 31.668 MBPS |
| | | MER | More than 35dB at Maximum RF Level output |
| | | RF Output | Impedance: 50 Ohm Output type: F-type female |
| | | USB Connector (software upgrade) | Number: 1 Type: Host 2.0 |
| | | HDMI Input | Number:1 High Definition Media Interface HDMI V 1.4a |
| | | Power DC Input Connector | DC 12V, 1A |
| Front Panel | Display | Display | LED Display |
| | LED | Power & Work state LED | POWER/LOCKED/SIGNAL Indicator |
| | Buttons | Tact switch x6 (UP/ DOWN/ LEFT/ RIGHT, MENU/ OK, LOCK) | Set Output channel/ LED OFF/ Factory Reset etc. |
| Power Supply | | Power supply unit type | Adapter Input: 100~240V AC Output: DC 5V 2.0A |
| | | Power consumption in normal working mode | <10W |
| Mechanical Design | Demension | 164(W)x104(D)x41(H) MM | |
| | Material | Metal cabinet | With enough heat radiation holes on cabinet |

Specifications are subject to change without further notice.

The manufacturer does not assume any responsibility regarding any errors or mistakes in printing.

Please note that a new software may change the features of the receiver.

The manufacturer holds the rights of changes without any further notice.