

## 長距離行動微波設備含周邊需求明細

數量：行動數位微波含周邊\*1

規格：

### 一、Transmitters

#### 1. Encoder

1.1. Video input interface , 75Ω 。

1.1.1. Composite or HD/SD SDI and ASI

1.1.2. Format:

HD (4:2:0): 720p 23.98/24/50/59.94/60

1080i 50/59.94

1080p 23.98/24/25/30/29.97

SD(4:2:0): NTSC: 720 x 480 PAL: 720 x 576

1.2. Audio input :

1.2.1. HD/SD-SDI Embedded audio 。

1.2.2. 1 stereo 以上 。

#### 2. Modulation

2.1. Modulation Formats: COFDM (DVB-T)

2.2. Carriers: 2k

2.3. Constellation: QPSK, 16 QAM

2.4. Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8

2.5. Guard Interval: 1/32, 1/16, 1/8, 1/4

2.6. Bandwidth: 6 MHz, 7 MHz, and 8 MHz

#### 3. System

3.1. Video Present: Remote Standby/Test

3.2. Generator Selectable

3.3. Latency: < 4 frames for I and p formats < 5 frames for psf formats

3.4. Test Generator (Dynamic): SMPTE CB (NTSC)/100% CB (PAL) 1 KHz Tone/Pulse

3.5. User Data: RS232 300-155k Baud

3.6. Remote Control: RS232

3.7. Local Control: Push Button

3.8. Preset: 16 user configurable presets through windows GUI

3.9. 支援 V MOUNT 電池

3.10. 傳輸距離需>10 公里

#### 4. RF Performance

- 4.1. Frequency(GHz): 1.980 to 2.500
- 4.2. RF Power: 不得高於 200 mW
- 4.3. Tuning Step Size: 250 kHz step size
- 4.4. Frequency Stability:  $\pm 10\text{ppm}$

#### 5. Antenna

- 5.1. Gain 4.5dBi(2GHz) 6.0dBi(5.8GHz)
- 5.2. Power Input > 5 Watts
- 5.3. Polarization Vertical
- 5.4. VSWR < 2:1
- 5.5. Impedance 50 $\Omega$
- 5.6. Connector N – Male
- 5.7.天線可依使用者需求更換

### 二、Receivers

#### 1. Decoder

- 1.1. Video output interface , 75 $\Omega$  。
  - 1.1.1. Composite or HD/SD SDI and ASI
  - 1.1.2. Format:
    - HD (4:2:0): 720p 23.98/24/50/59.94/60
    - 1080i 50/59.94
    - 1080p 23.98/24/25/30/29.97
    - SD(4:2:0): NTSC: 720 x 480 PAL: 720 x 576
- 1.2. Audio output :
  - 1.2.1. HD/SD-SDI Embedded audio
  - 1.2.2. 1 stereo 以上。

#### 2. Modulation

- 2.1. Modulation Formats: COFDM (DVB-T)
- 2.2. Carriers: 2k
- 2.3. Constellation: QPSK, 16 QAM
- 2.4. Code Rate: 1/2, 2/3, 3/4, 5/6, 7/8
- 2.5. Guard Interval: 1/32, 1/16, 1/8, 1/4
- 2.6. Bandwidth: 6 MHz, 7 MHz, and 8 MHz
- 2.7. Diversity: Channels: 2 input maximal ratio combining

#### 3. System

- 3.1. Video Present: Remote Standby/Test Generator Selectable
- 3.2. Latency: < 4 frames for I and p formats < 5 frames for psf formats
- 3.3. Test Generator (Dynamic): SMPTE CB (NTSC)/100% CB (PAL) 1 KHz Tone/Pulse
- 3.6. Remote Control: RS232
- 3.7. Local Control: Push Button
- 3.8. Preset: 16 user configurable presets through windows GUI
- 3.9.支援 V MOUNT 電池

#### 4. RF Performance

- 4.1. Frequency(GHz): 1.980 to 2.500
- 4.2. Tuning Step Size: 250 kHz step size
- 4.3. Frequency Stability:  $\pm 10\text{ppm}$

#### 5. Antenna

- 5.1. Gain 12dBi
- 5.2. Power Input > 5 Watts
- 5.3. Polarization Vertical
- 5.4. VSWR < 2:1
- 5.5. Impedance 50 $\Omega$
- 5.6. Connector N – Male

#### 6.需有硬殼攜行箱硬殼

- 6.1.需有伸縮拖行提把
- 6.2.箱體需有 4 輪
- 6.3.箱體內需可裝載發射器.接收器.天線及變壓器等  
所有所需配件