MEACOMTECH QAM modulator with DS3

Overview

MEACOMTECH M-4121 QAM modulator with DS3 is one of the main equipment of cable digital TV head-end, receiving data from the encoder, multiplexer, DVB gateway, scrambler, video server and other DVB transport stream, and make RS codes, convolution interleaving and QAM modulation channel processing, RF output. Use a new generation of integrated circuits BCM3034, low-power, high index.

www.meacomtech.com

info@meacomtech.com
Features

1. Meet DVB standard channel coding
2. Support full range of variable Symbol Rate and QAM mode
3. 8M cache, anti-burst stream
4. Data filling function
5. Support IP data injection
6. Configurable PID filter, re-mapping, PSI, SI information synchronization update
7. Support NIT table inserts
8. Real-time transport stream monitoring
9. PCR correction
10. Fixed or variable frequency output
11. Provide ASI and DS3 (Optional) Enter interface
12. Provide RF output monitoring port (-20dB)
13. Local and remote control
14. LCD display in Chinese and English, easy and flexible to operate
15. High reliability design, stable operation
16. Support Annex-A (Europe) and Annex-B (America)
## Technical Specification

<table>
<thead>
<tr>
<th><strong>Modulation Mode</strong></th>
<th>16,32,64,128,256,1024QAM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Symbol rate</strong></td>
<td>1~7Mbaud/s</td>
</tr>
<tr>
<td><strong>Error-correcting codes</strong></td>
<td>RScode188/204</td>
</tr>
<tr>
<td><strong>Input data code rate</strong></td>
<td>1.5~51Mbps</td>
</tr>
<tr>
<td><strong>Channel Data Rate</strong></td>
<td>20~56Mbps</td>
</tr>
<tr>
<td><strong>MER</strong></td>
<td>&gt;33dB</td>
</tr>
<tr>
<td><strong>BER</strong></td>
<td>0</td>
</tr>
<tr>
<td><strong>Input interface</strong></td>
<td>2 ASI in(DVB standard) DS3</td>
</tr>
<tr>
<td><strong>RF Frequency</strong></td>
<td>110MHz~860MHz (agility or fixed output)</td>
</tr>
<tr>
<td><strong>Output LEV</strong></td>
<td>&gt;=115dBµV</td>
</tr>
<tr>
<td><strong>Output LEV adjustable range</strong></td>
<td>0-16 dB(0.5 dB stepping)</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
<td>75ohm</td>
</tr>
<tr>
<td><strong>Output Return Loss</strong></td>
<td>&gt;=12 dB</td>
</tr>
<tr>
<td><strong>General Features</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>44mm<em>482</em>410mm</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td>0 ~ 45(Operating);-20 ~ 80(Storage)</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>220VAC(+10%),50Hz,25W</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Network RJ-45 10/100 M</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Keyboard + LCD</strong></td>
<td></td>
</tr>
</tbody>
</table>
Network Management

P1: DVB-C Modulator-parameter setting
P2: DVB-C Modulator-edit NIT

Network Manage Software (Version: 1.2.0)

- Add Device
- Save Device
- Add Device
- Edit Device
- Del Device
- Save Config
- Default Config
- Reload Config
- Import Config
- Export Config

Network Descriptor:
- Network ID: 0
- Name: Digital TV
- Version: 0

TS ID | Orig | Frequency | Symbol | Modulation | Polarization | Delivery
--- | --- | --- | --- | --- | --- | ---
0000 | 0000 | 0362.0000MHz | 006.9750 | 64QAM | Cable
0001 | 0000 | 0315.0000MHz | 006.9750 | 64QAM | Cable
0002 | 0000 | 0323.0000MHz | 006.9750 | 64QAM | Cable
0003 | 0000 | 0331.0000MHz | 006.9750 | 64QAM | Cable
0004 | 0000 | 0339.0000MHz | 006.9750 | 64QAM | Cable
0005 | 0000 | 0347.0000MHz | 006.9750 | 64QAM | Cable
0006 | 0000 | 0355.0000MHz | 006.9750 | 64QAM | Cable
0007 | 0000 | 0363.0000MHz | 006.9750 | 64QAM | Cable

www.meacomtech.com  info@meacomtech.com
P3: DVB-C Modulator-PID Pass-through

www.meacomtech.com   info@meacomtech.com
P4: DVB-C Modulator-PID filter
P5: DVB-C Modulator-edit PSI
P6: DVB-C Modulator-monitor