

DM8107 Digital Video Recorder (DVR)

Product PCB

READY TO PRODUCTION

Radium's DM8107 DVR design is based on high performance TI Da-Vinci DM 8107 platform and is fully ready for production with firmware/software

BEST IN CLASS DESIGN

Radium's DVR is based on high performance TI's Da-Vinci 8107 & NVP1104B/ NVP 1108B platform and is almost ready for production. It comes replete with full BSP and application firmware/software.

RADIUMBOARDS.COM:
 Leaders in Surveillance & Multimedia

RadiumBoards.Com boasts of best in class expertise in surveillance and multimedia domains with multiple products in production & field. Our expertise spans across the entire product development life-cycle – from product conceptualization to design to industrial design to the end application/solution.

We have excellent partnerships with EMS companies to be able to align with your aggressive production schedules.



- TIDa-Vinci DM-8107 & NVP1104B/NVP1108b Based Design
- NTSC & PAL
- Upto 4/8 Channel D1 Resolution for Recording & Upto D1 for Streaming
- H264 Compression
- SATA Drive Support
- VGA and Composite Video Out
- 4/8 BNC & 4/8 RCA Video/Audio In from Analog Camera
- PTZ Support
- Intelligent Features: De-Interlacing/ De-Noiseing, Motion Detect, Video-loss detection

| Streaming Scenarios | | |
|-------------------------|-------------------------|-------------------------|
| Stream | Case 1 | Case 2 |
| Encode Primary Stream | 4 x D1 30fps/ch | 8 x D1 30fps/ch |
| | H.264 | H.264 |
| Encode Secondary Stream | 4 x CIF 30fps/ch | 8 x CIF 30fps/ch |
| | H.264 | H.264 |
| Encode Audio Stream | 4 x G.711 mono 16KHz | 8 x G.711 mono 16KHz |
| Decode Audio Stream | 1 x G.711 mono 16KHz | 1 x G.711 mono 16KHz |

Radium's DVR is reference design based on industry leading TI's Da-Vinci DM-8107 processor & NVP1104B / NVP1108b multi-channel video decoder.

This is a feature-rich design – supports upto D1 resolution, H.264 encoding, motion detection, SATA drive support for recording with de-interlacing and de-noising features.

The reference design comes with full featured BSP and application/ configuration firmware and the release package includes a working board, BSP, application/ configuration firmware and PCB Gerber files.

VIBRANT

RADIUMBOARDS.COM USER COMMUNITY

Become part of a vibrant user community around TI's multimedia platforms and contribute to and benefit from collaborative development.

FLEXIBLE OEM MODEL

RadiumBoards.Com is backed by one of India's leading CDMS Company and thus offers very flexible, innovative and customizable OEM business models

CUSTOMIZATION

RadiumBoards.Com can provide any needed customizations to the hardware and/or firmware for an NRE and/or volume consideration.

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DVR: Technical Specifications

| | |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Processor | TI DM8107 |
| TVP | NVP1104B/NVP1108b Multi-Channel Video Decoder |
| HDD Storage Port | SATA 2.0 |
| Color System | PAL/ NTSC |
| Inputs | |
| Video | 4/8 BNC (From Analog Camera) |
| Audio | 4/8 RCA (From Analog Camera) |
| Interface | Front panel button , IR remote support |
| Outputs | |
| Audio | RCA (Mono) |
| Video | VGA (Upto XGA, SXGA) Composite (NTSC/PAL) |
| USB | 2 x USB 2.0 |
| Video Codecs | |
| Codec | H.264 |
| FPS | Upto 30 fps |
| Bit-Rate | 512 – 4048 Kbps |
| Audio Codecs | |
| Channel | Mono |
| Codec | G711 |
| Sampling | 8 KHz/ 16 KHz |
| Recording Resolution | 4/8 Channel up to D1 |
| Playback Support | |
| Searching Options | Camera input, date, event type |
| Playback Options | Multi-channel playback of files stored in HDD |
| Resolution | CIF/D1 |
| Color System | NTSC/PAL |
| FPS | Upto 30 fps |
| Play modes | FF/ REW |
| Trigger Modes | Manual, Motion-Detect, Net/Video Loss Schedule-based, HDD Abnormality |
| Storage | Continuous/Event Based Storage on HDD, USB |
| Alarm Modes | Email ,SMS , NAS / FTP recording, Alarm Out |
| Back-up Option | USB: USB 2.0 Storage Drive |
| OSD | Camera Title, Date & Time |
| PTZ | RS485 Protocol: Pelco P, Pelco D, Presets , Guard Tour |
| Intelligent Features | De-interlacing/ De-noising of data before display; Motion detection, Video-loss detection, Privacy Mask |
| Network Service | TCP/IP, DDNS, FTP, PPPOE, SMS, SMTP, WIFI, NAS, DHCP, 3G, DNS, ICMP, IPV4, UDP |
| Interface | 10/100 RJ-45 Base-TX Ethernet |
| Logging | Full system and event logs |
| User | Set 9 different users with different privileges |
| 3G/Wi-Fi Support | CDMA - 1x , EVDO , GSM-Edge , GPRS, HSPDA , HSPA+ * *Dependent on the data card, 802.11 a,b,g,n * *Dependent on the Wi-Fi Dongle |



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