Digital Video Encoder (DVE)
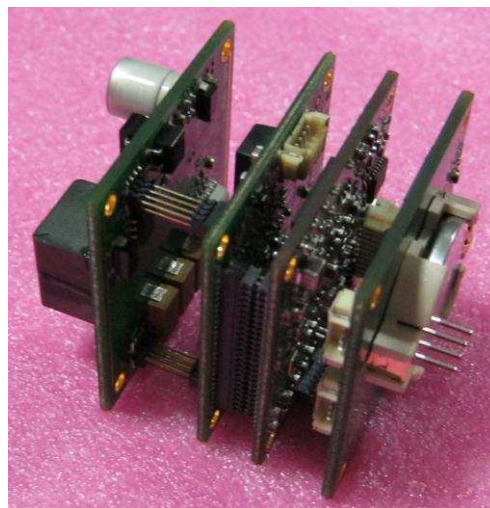*Product PCB*

READY TO PRODUCTION

Radium's DVE design is based on high performance TI Da-Vinci 365 platform and is fully ready for production replete with complete production grade firmware/ software . Indeed, these boards are not only in production but have been deployed in the field as well.

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.

- TI Da-Vinci DM-365 Based Design
- Modular Design – 4 Cards Allow Multiple Configurations – Basic, "L", "XL" and "XXL"
- NTSC & PAL
- Upto D1 Res (PAL:720x576, NTSC:720x480)
- H264, MPEG4 or MJPEG Compression
- 10/100 Base-Tx Ethernet, WiFi, 3G
- Secure RTSP, HTTP
- Video Motion Detection
- Full regular recording: SD Card, FTP & NAS
- PTZ Support
- Multiple Alarm Configurations

Radium's DVE PCB suite is a modular design based on industry leading TI's Da-Vinci DM-365 platform. This 4-PCB design allows multiple product configurations – starting with the Basic Model to an "L" model (Basic + POE) to an "XL" model (Basic + I/Os – USB, UART, SDCARD, Alarm In/Out) to the top of the line "XXL" model ("XL" + POE).

It is a feature rich design – supports upto D1 resolution, H.264/MPEG/MJPEG compression, motion detection, privacy masking & heartbeat snapshots etc. The design supports multiple alarm configurations and event detection. Through the USB port and appropriate 3G & WiFi dongle(s), it can support 3G and WiFi streaming.

Allows you to accelerate your surveillance/camera based product designs esp since this design is ready for production and comes packaged with production grade software/firmware & configurtation utilities.

DVE: Technical Specifications

Image Sensor	720 TVL max
System	PAL/NTSC
Audio	
Compression	G711 , AAC – Vol. 0 - 15
Talk back	2-way Audio
Video	
Compression	H264 , MPEG4 , MJPEG
Resolution	D1, 4CIF, CIF, QCIF, VGA, QVGA
Frame Rate	NTSC: 5-30 FPS, PAL: 5-25 FPS
Bit Rate	64 Kbps-5 Mbps
Video Streaming	Simultaneous H.264, MPEG4 and MJPEG Streams. Configurable Frame rate and rate control(VBR/CBR)
Image settings	Compression, Brightness, Contrast, Saturation, Sharpness, HUE, Auto DC Iris
Profile Schedule	5 Different Video Profiles, Schedule different video profiles for day and night time
Network	
Interface	10/100 RJ-45 Base-TX Ethernet 3G WiFi
Security	Password Protection Secure RTSP Secure HTTP
E-Mail and SMS Support	Full E-mail and SMS support Test E-mail and SMS Settings
Supported Protocol	IPv4, HTTP, HTTPS, SNTP,FTP, SMTP, DNS, DDNS, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, UPNP, PPPoE, NAS
Multicast Support	Available
Regular Recording	Full regular recording on SD card, FTP and NAS storage
Intelligent Video	Video motion detection, Privacy masking, Heart Beat Snapshots
Events	Audio Detection, Video and Network Loss, Motion Detection, External Trigger
Alarm Action	FTP recording, SD Card recording with pre-post support, Alarm Out Trigger, Audio alarm out with 5 audio files, NAS Storage, SMS, E-Mail
OSD	Date , Time , Camera Name , Frame rate , Bit rate
3G Support	CDMA - Ix , EVDO , GSM-Edge , GPRS, HSPDA , HSPA+ * *Dependent on the data card
Wi-Fi Support	802.11 a,b,g,n * *Dependent on the Wi-Fi Dongle
PTZ Support	Pan, Tilt, Zoom, Focus 0-255 Different Presets and Tours
User	Set 9 different users set with Different Privileges
Live View	
Zoom	Zoom in and Zoom out up-to 4x
Snapshot	Local System Snapshot
Video Record	Local Video Record
Logging	Full System and event logs.
Multiple Models/ Configurations	
Basic	Processor Card + NIC Card
L	Basic + POE Card (Power over Ethernet functionality)
XL	Processor Card + NIC Card + I/O Card (USB, Alarm In/Out, SDCARD, UART)
XXL	XL Model + POE Card (Power over Ethernet functionality)

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