aselsan

NOVA

VIDEO PROCESSING UNIT

Product Description

NOVA Video Processing Unit is resposible for performing image processing algorithms (i.e. contrast enhacement, motion detection, target tracking) on captured video. It converts composite analog video signals to MPEG4/H.264 encoded IP based video streams. It enables IP communication with devices which have only serial communicatin interfaces and controls remote devices.

Typical Applications

Image processing on captured videos

Product Features

- 800MHz Freescale i.MX6 Quad ARM Cortex-A9 + GPU processor
- 2GB DDR3 SDRAM
- 4GB eMMC
- Linux real time operating system
- x2 composite video, x1 MIPI/CSI-2 video inputs
- x1 mSATA, x1 uSD card interfaces
- Elapsed time Counter and environmental (pressure, humidty and temperature) sensors
- Overvoltage, undervoltage, reverse battery and overtemperature protection

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General Specifications

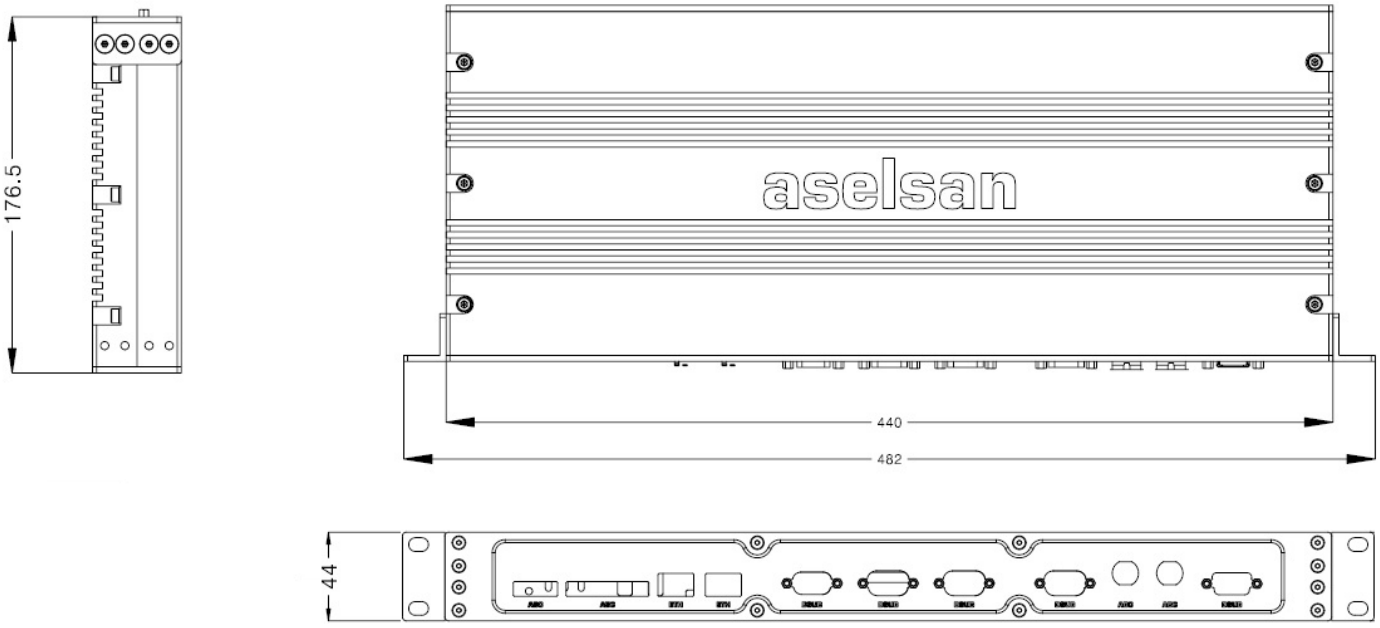
Rating	
Operating Voltage Range	: 8-36 VDC
Front Panel I/O	: 2 x USB2.0 Type A
	: 1 x Micro USB2.0 Type AB support OTG
	: 1 x Power LED
	: 6 x User defined LED
Back Panel I/O	: 1 x CANBus
	: 3 x RS422/485/232
	: 2 x 10/100/1000Mbit Ethernet
	: 1 x VGA
	: 2 x Composite BNC Jack (Composite Video)
	: 1 x DC Power input by 3-pole connector
	: 4 x Relay contacts by 8-pole connecto

Standards

Electromagnetic Compatibility: TBD

Thermal & Mechanical Data

Operational Temperature	: -10°C / +50°C
Storage Temperature	: -40°C / +60°C
Sealing	: TBD
Weight	: TBD
Cooling Type Conduction	



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