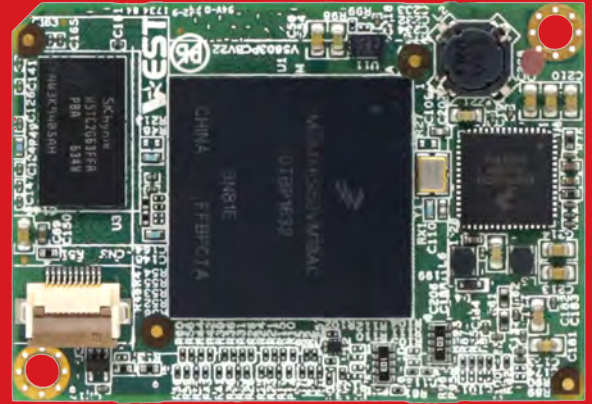


VEST DRT i.MX6 Solo / Dual Lite

VPN601 / VPN602

VEST is a leading embedded solutions provider, committing to excellence and innovation. Our VEST i.MX6 Solo / Dual lite System-On-Module expedite product development and manufacturing for supply resilience, enabling swift market entry for your products and ensuring a competitive advantage.



High Performance and Efficient



Rich Multimedia



Compact



Scalable

ABOUT OUR PRODUCT

Unleash the full potential of the NXP i.MX6 Solo / Dual Lite, featuring ARM® Cortex®-A9 Processor designed for multimedia focused products offering high performance processing with an optimized low power consumption. The processor includes 2D and 3D graphics processing, 1080 video processing and integrated power management.

The module measuring 50 x 35 mm is one of the most compact, flexible and scalable System-on-Module. For display, the module supports RGB interface for LCD up to 4.5", suitable for Smart connected devices.

Introducing the VEST DRT i.MX6 Solo / Dual Lite SOM suitable for diverse range of applications, such as

- Human Interface Interfaces (HMI) with touch capabilities
- Portal Test and Measurement instruments
- Portal medical and life science devices
- Smart Home energy management systems

Key Features

- NEON™ MPE (Media Processor Engine), provides rich multimedia capabilities
- Freescale's Dynamic Voltage and Frequency Scaling (DVFS) provides significant power reduction
- Interface Flexibility with controllers for up to 2 displays, high speed USB host and on-the-go
- Camera interface
- Secured data integrity, safeguard against unauthorized access

Support



VESTConnect360
Cloud Management System



Specifications

CPU Details	
CPU	i.MX6 Cortex®- A9 @ up to 1GHz, NEON™ SIMD Media Accelerator
CPU Core	Solo Dual Lite
GPU	Vivante GC320 Vivante GC880

Memory	
Memory	512MB to 2GB DDR3L SDRAM
Storage	Up to 32GB eMMC

Operating System / Driver	
BSP	Yocto Linux

Multimedia	
Video Encoder	1080p30 H.264 BP / Dual 720p Encode
Video Decoder	1080p30
Camera	Parallel (12-bit), MIPI-CSI2 (2-lanes)
Display	WXGA (1366 x 786) LVDS Parallel RGB (24-bit)

Connectivity	
Networking	10/100 Mbps Ethernet MAC
USB	USB 2.0 OTG with Integrated High Speed USB PHY, USB 2.0 Host
Serial Communication	2x CAN UART SPI GPIO PWM SDIO I2C
Other Connectivity	PCIe V2.0
Debugging & Programming	JTAG
Power	3.3V

Physical	
Form Factor	50mm x 35mm (SOM), 200 Pins
Operating Temperature	Commercial Industrial (Optional)

