

3U OpenVPX Solution



The VF360 is a 3U OpenVPX module that leverages on Altera Stratix® V FPGA and Texas Instruments KeyStone® Multicore DSP technology to provide an ultra-high bandwidth processing platform, ideally suited for computation and bandwidth intensive applications.

The KeyStone provides the flexibility to perform complex post-processing functions more suited for the processor domain.

The Stratic has two banks of dedicated DDR3 and QDRII+ memories for algorithms with high bandwidth and/or large memory size requirements. High-speed serial interfaces to the OpenVPX data plane and the FMC-HPC Module site creates abundant IO throughput.

The VF360 conforms to the OpenVPX standard and operates as a Payload module with System Controller capability.

Both air-cooled and conduction cooled versions are available.

▶ SINGLE BOARD COMPUTER - DSP + FPGA + FMC I/O - 3U VPX

▶ APPLICATIONS

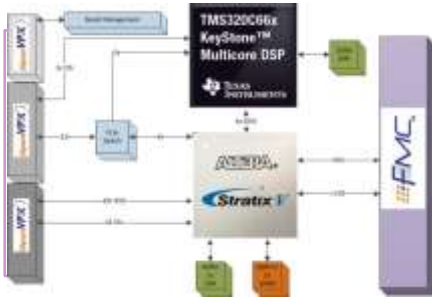
Radar Systems, SIGINT
Video Surveillance
Networking Infrastructures
Software Defined Radios
Heterogeneous Computing T,

▶ FEATURES

Single Board Computer (SBC)
Linux and TI DSP/BIOS RTOS
3U OpenVPX Format
TI's KeyStone MultiCore DSP
Altera Stratix-V FPGA
VITA 57.1 FMC I/O Expansion

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Air-cooled or Conduction-cooled Single Board Computer Boards			
PRODUCT	DESCRIPTION	FORM FACTOR	AVAILABILITY
VF360	DSP + FPGA Carrier	3U OpenVPX	NOW
VF361	ARM + DSP + FPGA + FMC Carrier	3U OpenVPX	Q2'16



High quality enclosures for development and deployment			
PRODUCT	DESCRIPTION	FORM FACTOR	AVAILABILITY
VT-330	3-slot Open-Frame Rack	3U OpenVPX	NOW
VS-340	4-slot ATR Rack	3U OpenVPX	Q2'16



Air-cooled or Conduction-cooled VITA 57.1 FMC Modules - LPC				
PRODUCT	TYPE	CHANNELS	SAMPLING RATE	RESOLUTION
FMC-DIO	Digital I/O	5-channels	200MHz	
FMC30RF	RF	1xRX 1xTX	Bandwidth 30MHz	
FMC104	A/D	4x In	250 MSPS	14-bit
FMC107	A/D	8x In	65 MSPS	12-bit
FMC112	A/D	12x In	125 MSPS	14-bit
FMC122	A/D	1x or 2x In	2500 MSPS	8-bit
FMC168	A/D	8x In	250 MSPS	16-bit
FMC407	Clock + Trigger	8x + 8x Outputs	35MHz to 4.4GHz	
SMT-FMC211	D/A	4x Out	1.25GSPS	16-bit
SMT-FMC311	A/D + D/A	2x In/Out	125MSPS/250MSPS	14-bit/16-bit

Air-cooled or Conduction-cooled VITA 57.1 FMC Modules - HPC				
PRODUCT	TYPE	CHANNELS	SAMPLING RATE	RESOLUTION
FMC116	A/D	16x In	125 MSPS	14-bit
FMC140	A/D	4x In	370 MSPS	16-bit
FMC161	A/D	2x In	1.8GSPS	12-bit
RFM-ADCFN10	A/D	10x In	105MSPS	16-bit
RFM-DACNF08	D/A	8x Out	1.2GSPS	16-bit
FMC-FADB	A/D + D/A	12x In+ 2x Out	250MSPS/1.2GSPS	14-bit/16-bit
FMC144	A/D + D/A	4x In/Out	370MSPS/2.5GSPS	16-bit/16-bit
FMC176	A/D + D/A	4x In/Out	250MSPS/5.6GSPS	14-bit/16-bit
RFM-ADAFF62	A/D + D/A	6x In + 2x Out	105MSPS/500MSPS	16-bit/16-bit
FMC667	DSP Processing	8x DSP Cores	On-board DDR3	TMS320C6678
FMC410	Optical Links	10-channels	Up to 10GSPS	AFBR-776BEHZ
FM510	Video + GPIO	2x SDI + Analog	SMPTE 424M	16
FM550	I/O Module	Mini SAS style	Up to 10GSPS	SFF-8088
RMF-TSS-2000	I/O Module	Dual SFP	Up to 3.125GSP	850nm