NOVSOM™CV

Product Brief
NOVSOM™CV System-On-Module featuring the latest Altera Cyclone V with Dual Core ARM Cortex A9

The latest NovTech SoM brings to customers all the benefits of the SoC while accelerating the design of an application board and eliminating the need to develop the DDR interface and boot devices. The use of NOVSOM™ will provide users with a proven small form factor SoM allowing them to focus their design efforts on the required peripherals in their application.

Features:
- All programmable signals are present on the Board to Board connectors (B2B), 288 FPGA signals and 67 HPS (ARM Hard-Core) signals and 21 pairs of High-Speed signals when the Cyclone V FPGA F31 package is used
- Accommodates all Altera documented boot options
- Allows designers to assign any desire voltage to any IO bank including Vref
- Up to 2Gbyte DDR3 with EEC support (ISSI)
- Up to 8Gbyte SLC NAND FLASH for HPS boot or general Solid State storage
- Up to 64Mbyte QSPI FLASH for HPS boot or general Solid State storage
- µSD slot connected to HPS
- Up to 64Mbyte QSPI FLASH for FPGA boot or general Solid State storage
- EEPROM for general Solid State storage
- HPS clock
- Three Board to Board connectors, 5mm and 8mm heights options, COM Express type
- Mounting holes on module allowing secure attachment to base board

Ordering information: NOVSOM™CV6FSX2-SL-31E-F-C

Please review the NOVSOM™CV ordering guide for customization of the NOVSOM™
**NOVSOM™CV Block Diagram**

- **SoM dimensions** 2.89” (73.4mm) by 2.52” (64mm)
- **Requires** three B2B connectors on carrier board, TE 3-1827253-6. Consult with Arrow for special pricing for these connectors
- **Available** in Commercial, Industrial and Automotive temperature ranges