

# Sierra 738

## **Cavium Octeon TX on COM Express**

## **Product Brief**

## **APPLICATIONS**

- General-purpose embedded computing systems in industrial, military and aerospace markets
- Control-plane applications in networking, telecom/datacom and wireless infrastructure

## **PRODUCT FEATURES**

#### Form Factor

 COM Express Compact, Type 7 95mm x 95 mm (3.74in x 3.74in)

#### **CPU**

- Cavium Octeon TX CN8120
  (2 Core at 1,200 / 1,500/ 1,800 / 2,000MHz)
- Cavium Octeon TX CN8130 (4 Core at 1,200 / 1,500/ 1,800 / 2,000MHz)

#### DRAM

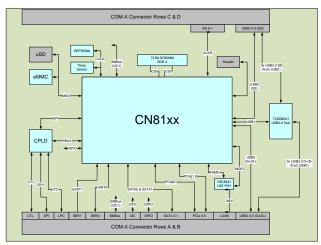
36 bit with ECC, up to 8 GB DDR III on board

## **None Volatile Memory**

- SPI NOR EEPROM
- eMMC (32 GB)
- Micro SD

#### I/O Interfaces

- 4 x PCle x1
- 1 x Ethernet 10/100/1000
- 2 x Ethernet 10G
- 4 x USB 3.0
- 2 x SATA III
- LPC bus
- SPI
- I<sup>2</sup>C bus
- SM bus
- 2x UART
- 8 x GPIO 8 x GPIO



Block Diagram of Sierra 738

### **Functions**

- Real time clock
- Temperature sensor

## **Operating System**

Cavium SDK

#### **Power Consumption**

• See User's Guide for full details

ENVIRONMENTAL			
Temperature	Operating	0° to 45 °C	
	Storage	-40° to +85° C	
Humidity	Operating	10 to 90% relative humidity non-condensing	
	Storage	5 to 95% relative humidity non-condensing	

ACCESSORIES		
Part Number	Description	
Sierra 13166	Carrier board for Sierra 738	

## **CUSTOMIZATION SERVICES**

Hardware, Firmware, Linux O/S and application code development services are available.



ORDERING INFORMATION		
Part Number	Description	
Sierra 738-	Sierra 738 with Octeon TX CN8120	
CN8120-1,200	at 1,200 MHz	
Sierra 738-	Sierra 738 with Octeon TX CN8120	
CN8120-1,500	at 1,500 MHz	
Sierra 738-	Sierra 738 with Octeon TX CN8120	
CN8120-1,800	at 1,800 MHz	
Sierra 738-	Sierra 738 with Octeon TX CN8120	
CN8120-2,000	at 2,000 MHz	
Sierra 738-	Sierra 738 with Octeon TX CN8130	
CN8130-1,200	at 1,200 MHz	
Sierra 738-	Sierra 738 with Octeon TX CN8130	
CN8130-1,500	at 1,500 MHz	
Sierra 738-	Sierra 738 with Octeon TX CN8130	
CN8130-1,800	at 1,800 MHz	
Sierra 738-	Sierra 738 with Octeon TX CN8130	
CN8130-2,000	at 2,000 MHz	

## ABOUT INTERFACE MASTERS TECHNOLOGIES, INC.

Interface Masters Technologies is a long term Cavium partner and leading provider of high speed networking solutions focused on Gigabit, 10 Gigabit, 40 Gigabit and 100 Gigabit Ethernet networking solutions. For over 20 years, Interface Masters Technologies has been providing innovative networking solutions with customization services to OEMs, large enterprises and sophisticated end users. Interface Masters Technologies provides Ethernet switches, appliances, server adapter cards with high port density, networking offload and bypass functionality. Company headquarters are located in San Jose, CA with satellite offices in Hong Kong and Europe.

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