

# SOM-DK7600S Evaluation Kit

## MIL-Grade System Development Kit COM Express R3.0 Mini Module Type 10 Pin Definition



### Features

- Compact Size with Open Standard VITA 75.0
- Modular Structure Comes with COMe, Carrier, I/O and Power Modules
- MIL-DTL-38999 Circular Connectors with IP Waterproof
- MIL-STD 810, 461 and IPC-A-610 Class 3 Compliant
- Operating Temperature up to -40 ~ 71°C
- Wide Range Power Input +12 to 40V<sub>DC</sub>
- Replaceable CMOS battery

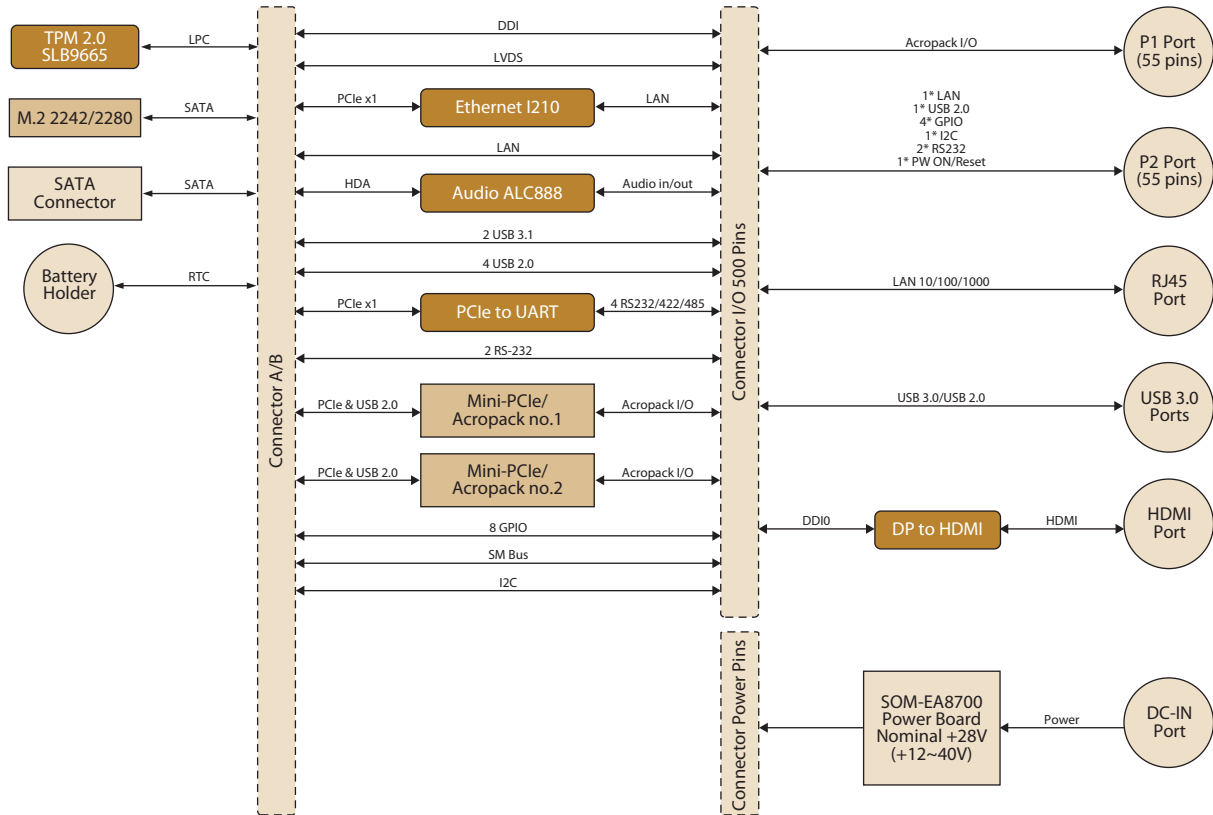


### Specifications

Platform	Box Form Factor	VITA 75.0 Standards. VU10x6x10
	COMe Module	COMe R3.0 Mini Type 10 Modules SOM-7569
	Memory	Onboard DDR3L 8G, eMMC 32GB
Expansion	Mini-PCIe/AcroPack	2* mini-PCIe/ AcroPack slots (PCIe & USB 2.0 support)
	M.2	1* M.2 key-B 2242/ 2280 slot
Connector Interfaces	J1	I/O 55 pins with MIL-DTL-38999 circular type (A key) 1* Reserved 55 pins for acropack expansion module
	J2	I/O 55 pins with MIL-DTL-38999 circular type (N key) 2* USB 2.0 2* RS232 4* GPIO 1* I2C 1* SMBus 1* Audio (stereo in & out)
	LAN	RJ-45 with MIL-DTL-38999 circular type 1* Ethernet port (10/100/1000)
	USB	USB 3.0 with MIL-DTL-38999 circular type 1* USB 3.0 port (USB 2.0 & USB 3.0)
	HDMI	HDMI with Industrial circular type 1* HDMI port
	DC-IN	Power with MIL-DTL-38999 circular type 1* DC-IN 6 pins
	Battery	CMOS
Power	Type	AT: Vin
	Supply Voltage	+28V nominal input (input range +12 to 40V), Maximum 200W
Environmental (*designed to meet)	Temperature	Operating Standard: 0 ~ 60° C (32 ~ 140° F) Extend Temp. : -40 ~ 71° C (-40 ~ 160° F) with 0.7m/s air flow & extend temp. module & accessory Storage -40 ~ 85° C (-40 ~ 185° F)
	Humidity	Operating: 40° C @ 95% relative humidity, non-condensing Storage: 60° C @ 95% relative humidity, non-condensing
	Environment	MIL-STD-810G* Functional Shock & Vibration - Operating* High temperature - Operating* Temperature Shock - Operating*
	EMC/Safety	MIL-STD-461F*, CE/FCC
	Power	MIL-STD-1275E*, MIL-STD-704F*
	IP Rating	IP Class 67*
Mechanical	Dimensions	8.0' x 7.2' x 4.0' in (203 x 184 x 101 mm)
Weight	Weight	8.1 kg (system only)
Mounting kit	mounting on side	VITA VU6 (4.8' in/ 122 mm)

# SOM-DK7600S Evaluation Kit

## Block Diagram



## Ordering Information

Part No.	Description
Contact sales	COMe Type 10 System Evaluation Kit

## Packing List

Part No.	Description	Quantity
N/A	SOM-7569BCBCC-S6B1 (Intel E3950, onboard DDR 8GB, eMMC 32GB, 0~60°C)	1
N/A	SOM-7569 (carrier board, -40 ~ 85 °C)	1
N/A	SOM-EA8610 (MIL-DTL-38999 I/O board, -40 ~ 85 °C)	1
N/A	SOM-EA8700 (MIL-grade power board, -40 ~ 85 °C)	1
N/A	Enclosure (IP waterproof, fanless)	1
N/A	MIL-DTL-38999 adapter cable (Amphenol 55pins, N key)	1
N/A	MIL-DTL-38999 adapter cable (Amphenol 55pins, A key)	1
N/A	MIL-DTL-38999 adapter cable (Amphenol 6pins, DC-IN)	1

## Optional Accessory

Part No.	Description	Quantity
N/A	Acropack I/O Module	1
N/A	VITA 75.0 Mounting kit	1
N/A	Pelican Protector Case (Watertight, crushproof, and dustproof)	1
N/A	+24V <sub>DC</sub> Power Adapter (0 ~ 40 °C)	1