SOM-DK5800S Evaluation Kit

MIL-Grade System Development Kit COM Express R3.0 Basic Module Type 6 MXM Graphic and IP67 Waterproof

Features

- Robust System Followed Open Standard VITA 75.0
- Modular Structure Comes with COMe, Carrier, I/O and Power Modules
- MIL-DTL-38999 Circular Connectors with IP Waterproof
- Design to Meet MIL-STD 810, 461 and IPC-A-610 Class 3
- Operating Temperature up to -40 ~ 55°C
- Wide Range Power Input +16 to 48V DC
- Replaceable CMOS Battery and Micro-SD slot

Specifications

Platform	Box Form Factor	VITA 75.0 Standards. VU12x7x16
	COMe Module	COMe R3.0 Basic Type 6 Moudules SOM-5899
	Memory	DDR4 SO-DIMM up to 96GB capacity
Expansion	Graphic	1* MXM slot (Type A, Compatible with NVidia MXM)
	Mini-PCIe/Acropack	2* mPCIe / Acropack slot
	Mini-PCIe/ mSATA	1* mPCIe/ mSATA
	SD	1* Micro-SD slot
	M.2	1* M.2 Key B/M 2242/ 2280 slot
	SATA	2* SATA III & PW (option, share with 400pin.)
Connector Interfaces	J1	MIL-DTL-38999 128 pins circle connector A-key 2* Acropack I/O
	J2	MIL-DTL-38999 128 pins circle connector N-key 1* LAN 2* USB 2.0 1* USB 3.0/ USB 2.0 2* DP (from MXM graphic) 8* GPIO (4 in, 4 out) 1* I2C 1* SMbus 1* Audio (stereo in & out) 2* RS-232 (COMe) 2* RS-232/422/485 (Carrier board) 1* Power & reset button 1* Rapid shutdown 1* Power LED
	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 2* USB 3.0 port (USB 2.0 & USB 3.0)
	HDMI	HDMI with Industrial circular type 3* HDMI port (1 port from COMe, 2 ports from MXM)
	DC-IN	Power with MIL-DTL-38999 circular type 1* DC-IN 4 pins
Battery	CMOS	Replaceable CMOS battery on edge PCB for easy access
Power	Type	AT: Vin
	Supply Voltage	+28V nominal input (input range +16 to 48V), Maximum 300W
Environmental (*designed to meet)	Temperature	Operating Standard: 0 ~ 60° C (32 ~ 140° F) Extend Temp. : -40 ~ 55° C (-40 ~ 131° 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	Design to meet MIL-STD-810G*
	EMC/Safety	Design to meet MIL-STD-461* and EC/FCC
	Power	Design to meet MIL-STD-1275E and MIL-STD-704F*
	IP Rating	Design to meet IP66 & IP67*
Mechanical	Dimensions	9.6' x 12.8' x 5.6' in (244 x 326 x 143 mm)
Weight	Weight	11.3 kg (system only)
Mounting kit	mounting on side	VITA VU6 (4.8' in/ 122 mm)

* Project based support

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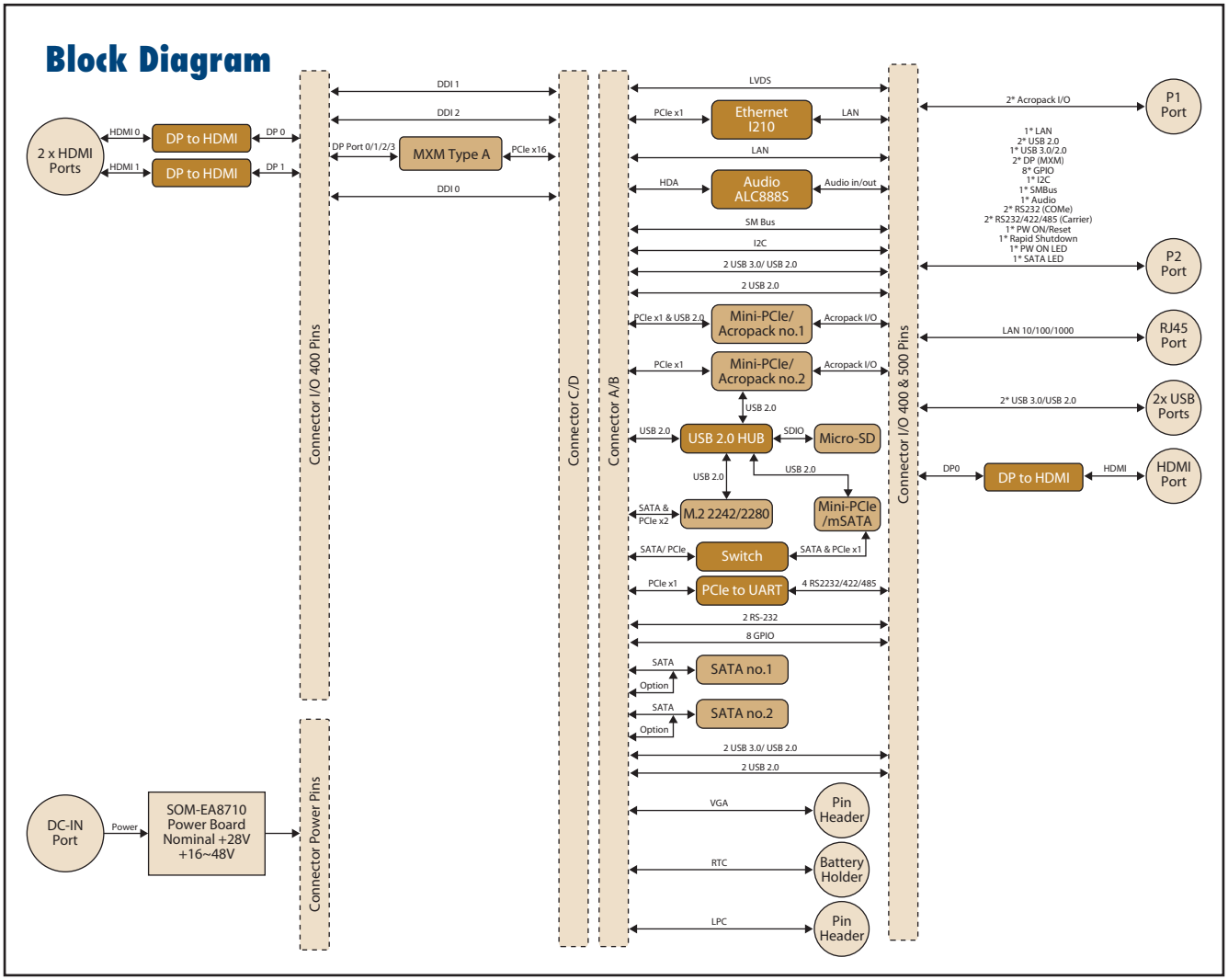
All product specifications are subject to change without notice.

Block Diagram



Ordering Information

Part No.	Description
Contact sales	COMe Type 6 System Evaluation Kit

Packing List

Part No.	Description	Quantity
N/A	SOM-5899C3Q-H0A1 (Intel i3-8100H, 0 ~ 60 °C)	1
N/A	SOM-AB5800 (carrier board, -40 ~ 85 °C)	1
N/A	SOM-EA8620 (MIL-DTL-38999 I/O board, -40 ~ 85 °C)	1
N/A	SOM-EA8710 (MIL-grade power board, -40 ~ 85 °C)	1
N/A	Enclosure (IP waterproof, fanless)	1
N/A	MIL-DTL-38999 adapter cable (Amphenol 128pins, N key)	1
N/A	MIL-DTL-38999 adapter cable (Amphenol 128pins, A key)	1
N/A	MIL-DTL-38999 adapter cable (Amphenol 4pins, 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_{DC} Power Adapter (0 ~ 40 °C)	1