

DESCRIPTION

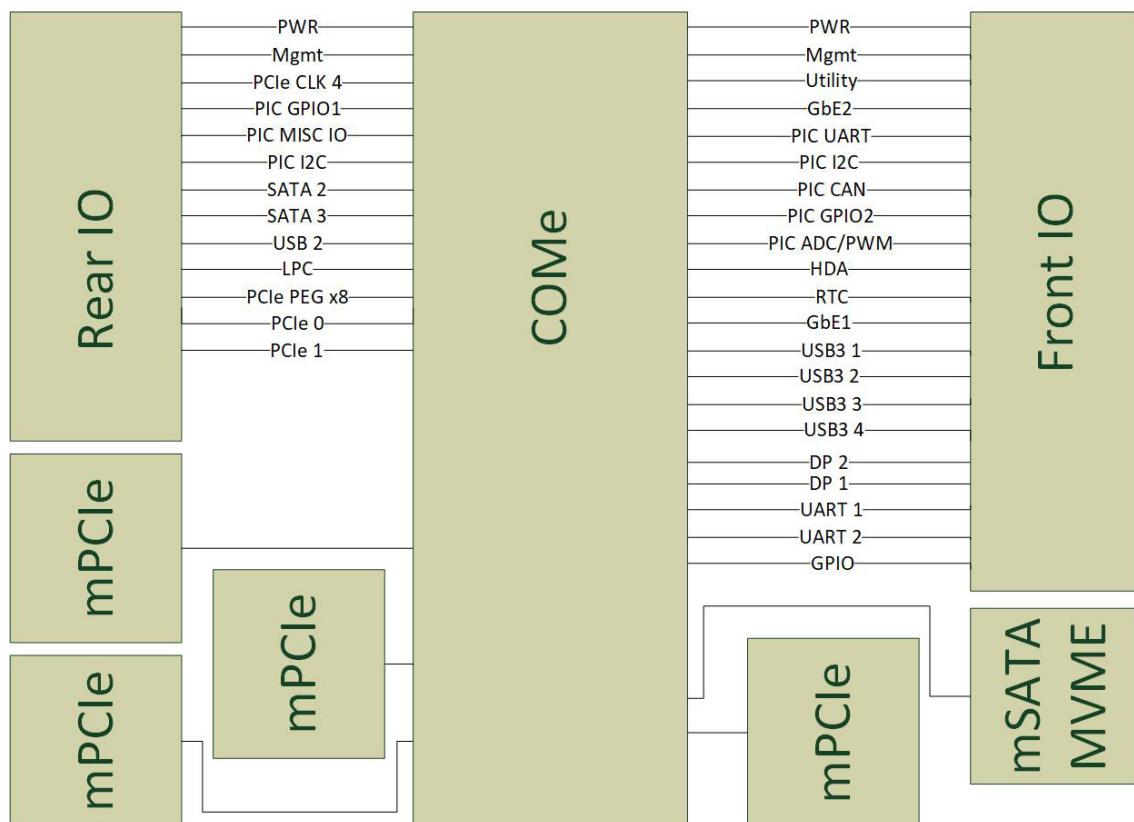
FlexCom is a configurable, conduction-cooled COM-Express-based embedded computing concept. The base board of the system contains 4x Mini-PCIe and a M.2 connection for storage. The system is suitable for use in rough terrain and under extreme environmental conditions. Depending on the requirements, different types of basic or compact COMe modules Type 6 can be used. By using a maximum of four mPCIe cards, user-defined systems can be configured for different application areas.



FEATURES

- Coldplate mounting
- AMD and Intel Core i3, i5, i7 processors, DDR4 RAM up to 64 GB
- Dual Gb Ethernet, 3x USB 3.0, 1x Display Port (DP 1.4), four mPCIe full-size slots, one M.2 slot (mSATA or NVME)
- Monitoring functions (voltages, temperatures, etc.) and simple hardware configuration
- OS support: VxWorks, Linux, Windows 10, Windows 10 IoT
- Conformal coating available
- IP67 Rating, MIL-STD 810G, MIL-STD 461 conformity and extended temperature range from -40 °C to +71 °C

BLOCK DIAGRAM



SPECIFICATIONS**CPU**

CPU options:	AMD Ryzen™ Embedded R1606G with AMD Radeon™ Vega 3 Graphics, Dual Core / Single Thread, TDP 15 W Intel Core™ i7-8665UE, 1.7 (4.4 Turbo) GHz, 8 MB, 15 W Intel Core™ i5-8365UE, 1.6 (4.1 Turbo) GHz, 6 MB, 15 W Intel Core™ i3-8145UE, 2.2 (3.9 Turbo) GHz, 4 MB, 15 W
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RAM options:	AMD-CPU: DDR4-3200 ECC // non-ECC RAM, 16 GB or 32 GB Intel-CPU: Dual channel 2133/2400 MHz non-ECC DDR4 memory up to 16, 32 and 64 GB
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PSU

Electrical ratings:	16-80 VDC input, 75 W Galvanic isolated, EMI filter integrated, MIL STD 704F
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Storage

	M.2 2280 storage PCIe Gen3 x4 or mSATA
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I/O

Front I/O	3x USB 3.0, 1x USB 2.0, 1x Display Port 1.4, 2x GbE, 4x GPI, 4x GPO, 2x UART (RX/TX)
	ODU AMC 9 pol USB1, USB2, USB3(USB3.0)
	ODU AMC 4 pol USB4(USB2.0)
	ODU AMC 12 pol ETH1, Eth2(1GbE)
I/O connectors	ODU AMC 12 pol J1(GPI, GPO, UART, Monitoring)
	ODU AMC 40 pol VIDEO OUT(Display Port 1.4)
	ODU AMC 40 pol VIDEO OUT(Display Port 1.4)

Environmental Data

Operating temperature range:	-40 °C – 71 °C (depending on cooling method)
Storage temperature range:	-40 °C – 80 °C

Physical

L x W x D	111 x 120 x 228 mm
Weight	3.2 kg

Standards

	Designed to meet MIL-STD 810G, MIL-STD 461, IP67
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Expansion Options

	4x mini PCIe full-size PCIe Gen3 x8 link as rear I/O (with modified chassis solution)
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Accessories

	Standard cable set of the outgoing interfaces (ODU AMC plug to standard interface). Customized cable assembly depending on application.
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