COM EXPRESS® BASIC TYPE 6
WITH 7th GENERATION Intel® Core™ / Xeon® PROCESSORS

- Intel® 7th Generation Core™ series / Xeon® E3 v6 family with CM238 PCH
- Up to 32 GByte DDR4 non-ECC/ECC memory
- Industrial temperature grade
- Support of Kontron's Embedded Security Solution (Approtect)
- Support of Intel® Optane™ memory technology via PCIe
**TECHNICAL INFORMATION**

**COMPLIANCE**
COM Express® basic, Pin-out Type 6

**DIMENSIONS (H x W)**
125 x 95 mm

**CPU**
- Intel® Xeon® E3-1505M v6, 4x 3.0 GHz (4.0 GHz), GT2, 45/35 W
- Intel® Xeon® E3-1505L v6, 4x 2.2 GHz (3.0 GHz), GT2, 25 W
- Intel® i3-7100E Core™ i3, 2x 2.9 GHz, GT2, 35 W
- Intel® i3-7102E Core™ i3, 2x 2.1 GHz, GT2, 25 W

**CHIPSET**
Intel® Mobile CM238

**MAIN MEMORY**
2x DDR4-2400 SO-DIMM up to 2x 16 GByte (non-ECC/ECC)

**GRAPHICS CONTROLLER**
- Intel® HD Graphics P630 for Xeon® processors
- Intel® HD Graphics 630 for Core™ processors

**ETHERNET CONTROLLER**
Intel® I219LM

**ETHERNET**
10/100/1000 MBit Ethernet

**HARD DISK**
4x SATA 6Gb/s

**FLASH ONBOARD**
- 8x PCIe x1, 1x PEG x16
- 4x USB 3.0 (incl. USB 2.0) + 4x USB 2.0
- 2x serial interface (RX/TX only)

**AUDIO**
- Intel® High Definition Audio

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**ETHERNET**
10/100/1000 MBit Ethernet

**HARD DISK**
4x SATA 6Gb/s

**FLASH ONBOARD**
- 8x PCIe x1, 1x PEG x16
- 4x USB 3.0 (incl. USB 2.0) + 4x USB 2.0
- 2x serial interface (RX/TX only)

**AUDIO**
- Intel® High Definition Audio

**COMMON FEATURES**
- SPI, LPC, SMB, Fast I2C, Staged Watchdog, RTC, support of Intel® Optane™ memory technology via PCIe
- AMI Aptio V
- Humidity 93 % relative Humidity at 40° C, non-condensing (according to IEC 60068–2–78)

**BIOS**
AMI Aptio V

**ON REQUEST**
vPRO (AMT/TXT/AES Support), eDP instead of LVDS, VGA

**POWER MANAGEMENT**
ACPI 6.0

**POWER SUPPLY**
ATX or Single Supply Power

**SPECIAL FEATURES**
- POSCAP capacitors, Trusted Platform Module TPM 2.0, Security Chip, 4k Resolutions, Flexible PEG lane configuration by Setup Option, Rapid Shutdown

**OPERATING SYSTEM**
Microsoft® 10, Linux, VxWorks

**TEMPERATURE**
Industrial temperature: -40° C to +85° C operating, -40° C to +85° C non-operating

**SUPPORTED MODULES**
COMe-bKL6R E2S xx-xxxxxx CM238

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**GLOBAL HEADQUARTERS**

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Specifications are subject to change without notice. COMe-bKL6R E2S-20180205 - WMH