COM Express® Basic Type 6
with 8th/9th Generation Intel® Core™ / Xeon® Processors

- Intel® 8th/9th Generation Core™ series / Xeon® E family with CM246/QM370 PCH
- Up to 128 GByte DDR4 non-ECC/ECC memory
- Optional NVMe SSD onboard
- Industrial grade versions
- Support of Kontron’s Embedded Security Solution (APPROTECT)
## TECHNICAL INFORMATION

### COMPLIANCE

COM Express® basic, Pin-out Type 6

### DIMENSIONS (H x W)

125 x 95 mm

### CPU

| Intel® Xeon® 8th Gen E-2176M, 6x 2.7 GHz (4.4 GHz), GT2, 45/35 W |
| Intel® Core™ 8th Gen i5-8400H, 4x 2.5 GHz (4.2 GHz), GT2, 45/35 W |
| Intel® Core™ 8th Gen i3-8100H, 4x 3.0 GHz, GT2, 45/35 W |
| Intel® Xeon® 9th Gen E-2276ME (6x 2.8 GHz, GT2, 45W/35W) |
| Intel® Xeon® 9th Gen E-2276ML (6x 2.0 GHz, GT2, 25W) |
| Intel® Xeon® 9th Gen E-2254ME (4x 1.7 GHz, GT2, 25W) |
| Intel® Core™ 9th Gen i7-9850HL (6x 1.9 GHz, GT2, 25W) |
| Intel® Pentium™ 9th Gen G5600E (2x2.6 GHz, GT2, 35W) |
| Intel® Celeron® 9th Gen G4932E (2x1.9 GHz, GT2, 25W) |

### CHIPSET

Intel® Mobile CM246 (Xeon®) / Intel® Mobile QM370 (Core™)

### MAIN MEMORY

Up to 4x DDR4-2400 SO-DIMM with up to 128 GByte (non-ECC/ECC) (3rd/4th socket on request)

### GRAPHICS CONTROLLER

Intel® HD Graphics P630 for Xeon® processor |
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

Up to 1 TByte NVMe SSD (on request)

### PCI EXPRESS® SUPPORT

8x PCIe x1, 1x PEG x16

### PANEL SIGNAL


### USB

4x USB 3.1 (incl. USB 2.0) + 4x USB 2.0

### SERIAL

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

### BIOS

AMI Aptio V

### HUMIDITY

93 % relative Humidity at 40 °C, non-condensing (according to IEC 60068-2-78)

### FEATURES ON REQUEST

vPRO (AMT/TXT/AES Support), eDP instead of LVDS, VGA, Intel® Mobile HM370 Chipset, 3rd/4th DDR4 SO-DIMM socket, NVMe SSD

### POWER MANAGEMENT

ACPI 6.0

### POWER SUPPLY

8.5 V – 20 V Wide Range, 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 (R E2S variants)

### OPERATING SYSTEM

Windows® 10, Linux, VxWorks

### TEMPERATURE

Commercial temperature: 0 °C to +60 °C operating, -30 °C to +85 °C non-operating
Extended temperature: -25 °C to +75 °C operating, -30 °C to +85 °C non-operating
Industrial temperature: -40 °C to +85 °C operating, -40 °C to +85 °C non-operating

### SUPPORTED MODULES

COMe-bCL6(R E2S) xx-xxxxx CM246/QM370