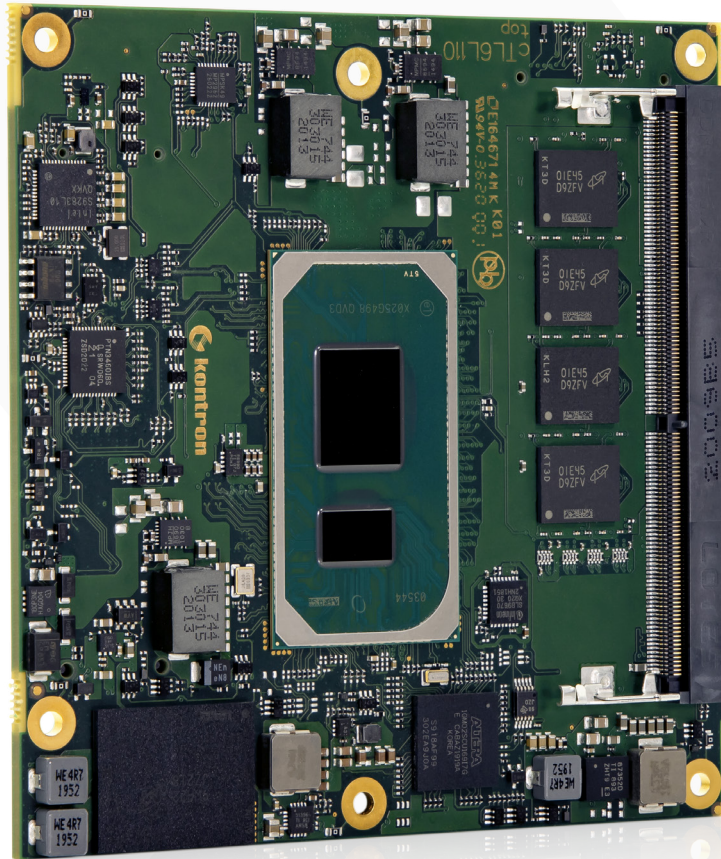


# COMe-cTL6 (E2)



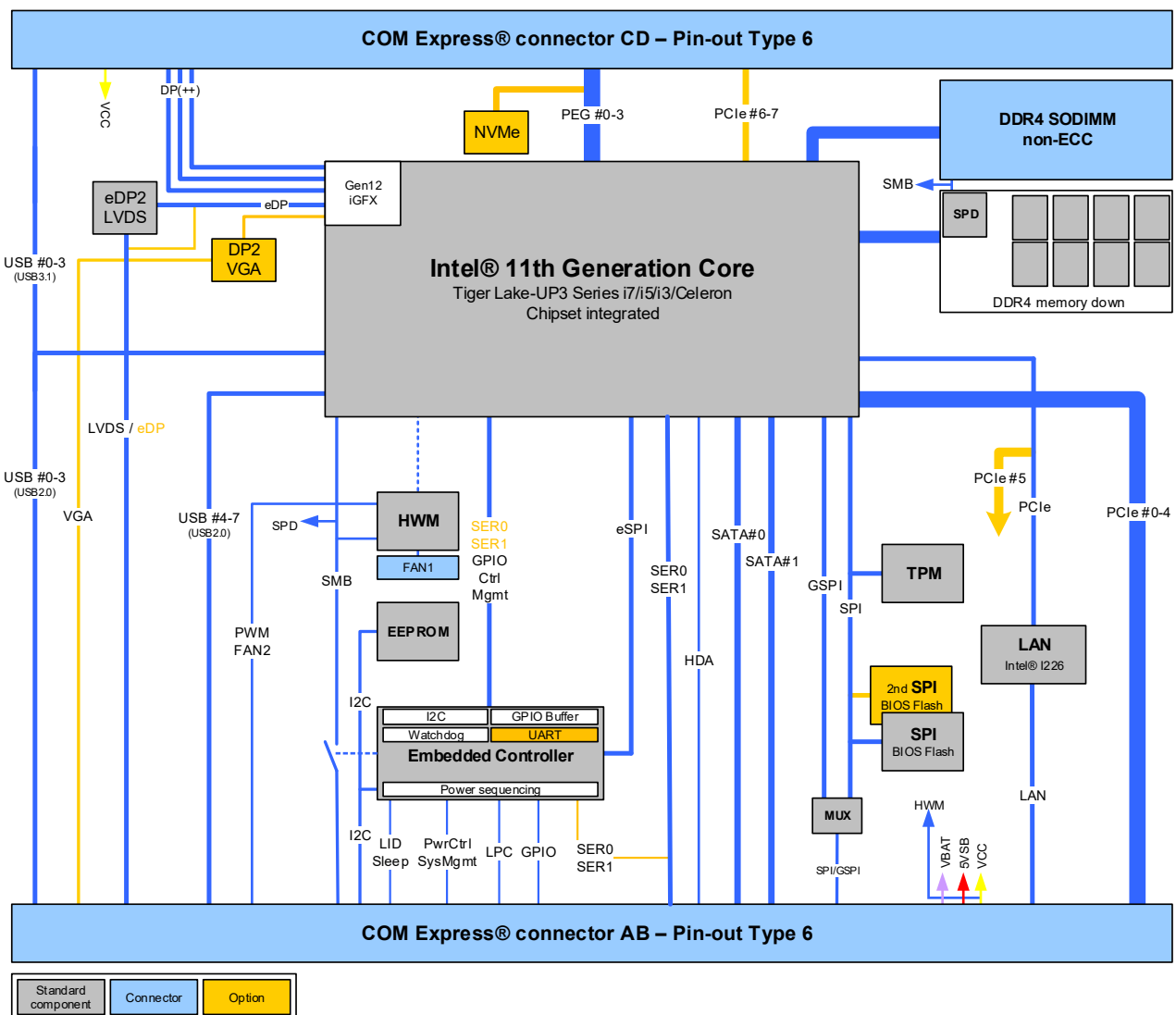
## COM Express® Compact Type 6 with 11th Generation Intel® Core™/Celeron® Processors

- Up to 48 GByte DDR4 memory (16 GByte DDR4 memory down)
- Up to 2.5 Gb Ethernet with TSN support
- Optional NVMe SSD onboard
- Industrial grade versions

|                        |                                                                                                                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COMPLIANCE             | COM Express® Compact Pin-out Type 6                                                                                                                                                                                                                        |
| DIMENSIONS (H x W x D) | 95 x 95 mm                                                                                                                                                                                                                                                 |
| CPU                    | Intel® 11th Generation Core™/ Celeron® family<br>For details see table (CPU variants) given below                                                                                                                                                          |
| CHIPSET                | Integrated SoC                                                                                                                                                                                                                                             |
| MAIN MEMORY            | 1x DDR4 SO-DIMM up to 32 GByte, 2nd channel DDR4 memory down up to 16 GByte                                                                                                                                                                                |
| GRAPHICS CONTROLLER    | Intel® Iris®Xe Graphics on i7/i5 processors<br>Intel® UHD Graphics on i3/Celeron® processors                                                                                                                                                               |
| ETHERNET CONTROLLER    | Intel® I226LM/I226IT                                                                                                                                                                                                                                       |
| ETHERNET               | Up to 2.5Gb Ethernet with TSN support (depending on SKU)                                                                                                                                                                                                   |
| STORAGE                | 2x SATA 6Gb/s                                                                                                                                                                                                                                              |
| FLASH ONBOARD          | Up to 1 TByte NVMe SSD (on request)                                                                                                                                                                                                                        |
| PCI EXPRESS®           | 5x PCIe 3.0 (On request: 6x without Ethernet, up to 8x without Ethernet & SATA)<br>1x4 PCIe 4.0 on PEG Lanes #0-3                                                                                                                                          |
| DISPLAY                | DDI1: DP++, DDI2: DP++, DDI3: DP++, VGA: -, LVDS: Dual Channel 18/24bit                                                                                                                                                                                    |
| USB                    | 4x USB 3.1 (incl. USB 2.0) + 4x USB 2.0                                                                                                                                                                                                                    |
| SERIAL                 | 2x serial interface (RX/TX only)                                                                                                                                                                                                                           |
| AUDIO                  | High Definition Audio interface                                                                                                                                                                                                                            |
| OTHER FEATURES         | (G)SPI, LPC, SMB, Fast I²C, Staged Watchdog, RTC                                                                                                                                                                                                           |
| SPECIAL FEATURES       | POSCAP capacitors, Trusted Platform Module TPM 2.0                                                                                                                                                                                                         |
| FEATURES ON REQUEST    | vPRO (AMT/TXT/AES Support), eDP instead of LVDS, VGA, up to 3x PCIe x1 additional w/o Ethernet & SATA, NVMe SSD, Fail Safe via 2nd SPI Flash                                                                                                               |
| POWER MANAGEMENT       | ACPI 6.0                                                                                                                                                                                                                                                   |
| POWER SUPPLY           | 8.5 V – 20 V Wide Range, Single Supply Power                                                                                                                                                                                                               |
| BIOS                   | AMI Aptio V                                                                                                                                                                                                                                                |
| OPERATING SYSTEM       | Windows®10, Linux, VxWorks                                                                                                                                                                                                                                 |
| TEMPERATURE            | Commercial temperature: 0 °C to +60 °C operating, -30 °C to +85 °C non-operating<br>Extended temperature: -25 °C to +75 °C operating, -30 °C to +85 °C non-operating<br>Industrial temperature: -40 °C to +85 °C operating, -40 °C to +85 °C non-operating |
| HUMIDITY               | 93 % relative Humidity at 40 °C, non-condensing (according to IEC 60068-2-78)                                                                                                                                                                              |

## CPU Variants

|                      | 11th GENERATION |             |             |           |             |             |             |
|----------------------|-----------------|-------------|-------------|-----------|-------------|-------------|-------------|
| CPU                  | i7-1185G7E      | i5-1145G7E  | i3-1115G4E  | 6305E     | i7-1185GRE  | i5-1145GRE  | i3-1115GRE  |
| CORES                | 4               | 4           | 2           | 2         | 4           | 4           | 2           |
| FREQUENCY BASE/TURBO | 1.8/4.4 GHz     | 1.5/4.1 GHz | 2.2/3.9 GHz | 1.8/- GHz | 1.8/4.4 GHz | 1.5/4.1 GHz | 2.2/3.9 GHz |
| TDP                  | 28/15/12 W      | 28/15/12 W  | 28/15/12 W  | 15 W      | 28/15/12 W  | 28/15/12 W  | 28/15/12 W  |
| CACHE                | 12 MByte        | 8 MByte     | 6 MByte     | 4 MByte   | 12 MByte    | 8 MByte     | 6 MByte     |
| IBEC                 | no              | no          | no          | no        | yes         | yes         | yes         |
| TCC/TSN              | no              | no          | no          | no        | yes         | yes         | yes         |



## Variants

| PART NO.        | CPU        | PCH        | MEM. DOWN | SO-DIMM | FLASH   | OP. TEMPERATURE |
|-----------------|------------|------------|-----------|---------|---------|-----------------|
| 36030-1610-18-7 | i7-1185G7E | integrated | 16 GByte  | non-ECC | 1 TByte | 0 °C - 60 °C    |
| 36030-1600-18-7 | i7-1185G7E | integrated | 16 GByte  | non-ECC | -       | 0 °C - 60 °C    |
| 36030-0000-18-7 | i7-1185G7E | integrated | -         | non-ECC | -       | 0 °C - 60 °C    |
| 36030-8000-15-5 | i5-1145G7E | integrated | 8 GByte   | non-ECC | -       | 0 °C - 60 °C    |
| 36030-0000-15-5 | i5-1145G7E | integrated | -         | non-ECC | -       | 0 °C - 60 °C    |
| 36030-0000-22-3 | i3-1115G4E | integrated | -         | non-ECC | -       | 0 °C - 60 °C    |
| 36030-0000-18-2 | 6305E      | integrated | -         | non-ECC | -       | 0 °C - 60 °C    |
| 36031-1600-18-7 | i7-1185GRE | integrated | 16 GByte  | non-ECC | -       | -40 °C - 85 °C  |
| 36031-8000-15-5 | i5-1145GRE | integrated | 8 GByte   | non-ECC | -       | -40 °C - 85 °C  |
| 36031-0000-22-3 | i3-1115GRE | integrated | -         | non-ECC | -       | -40 °C - 85 °C  |

| ARTICLE                   | PART NO.        | DESCRIPTION                                                      |
|---------------------------|-----------------|------------------------------------------------------------------|
| COMe EVAL CARRIER2 T6     | 38116-0000-00-5 | COM Express® Evaluation Carrier Type 6                           |
| COMe REF.CARRIER-I T6 TMI | 38115-0000-00-x | COM Express® Reference Carrier Type 6 for industrial temperature |

## Cooling

| ARTICLE                            | PART NO.        | DESCRIPTION                                                                                     |
|------------------------------------|-----------------|-------------------------------------------------------------------------------------------------|
| HSP COMe-cTL6 CU-CORE THREADED     | 36030-0000-99-0 | Heatspreader for COMe-cTL6, Cu-core, threaded mounting holes                                    |
| HSP COMe-cTL6 CU-CORE THROUGH      | 36030-0000-99-1 | Heatspreader for COMe-cTL6, Cu-core, through mounting holes                                     |
| COMe ACTIVE UNI COOLER2 (W/O HSP)  | 36099-0000-99-4 | COM Express® Universal Active Cooler for Heatspreader Mounting (95 x 95 x 14.3) - 90° turnable  |
| COMe PASSIVE UNI COOLER2 (W/O HSP) | 36099-0000-99-5 | COM Express® Universal Passive Cooler for Heatspreader Mounting (95 x 95 x 14.3) - 90° turnable |

## Memory

| PART NO.        | MIN. SPEC. | SIZE     | ECC | OP. TEMPERATURE |
|-----------------|------------|----------|-----|-----------------|
| 97020-3232-CTL6 | DDR4-3200  | 32 GByte | no  | 0 °C - 60 °C    |
| 97020-1632-CTL6 | DDR4-3200  | 16 GByte | no  | 0 °C - 60 °C    |
| 97020-0832-CTL6 | DDR4-3200  | 8 GByte  | no  | 0 °C - 60 °C    |
| 97020-0432-CTL6 | DDR4-3200  | 4 GByte  | no  | 0 °C - 60 °C    |
| 97021-3232-CTL6 | DDR4-3200  | 32 GByte | no  | -40 °C - 85 °C  |
| 97021-1632-CTL6 | DDR4-3200  | 16 GByte | no  | -40 °C - 85 °C  |
| 97021-0832-CTL6 | DDR4-3200  | 8 GByte  | no  | -40 °C - 85 °C  |
| 97021-0432-CTL6 | DDR4-3200  | 4 GByte  | no  | -40 °C - 85 °C  |

## Your Contact

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