

# COM EXPRESS® compact

## Tech Specs At-a-Glance



COM EXPRESS® compact COMe-cBL6

COMe-cHL6

COMe-cBTc6 / cBTi6

COMe-cBTi6R

COMPILANCE	COM Express® compact, Pin-out Type 6	COM Express® compact, Pin-out Type 6	COM Express® compact, Pin-out Type 6	COM Express® compact, Pin-out Type 6
DIMENSIONS (H X W X D)	95 x 95 mm	95 x 95 mm	95 x 95 mm	95 x 95 mm
CPU	Intel® Core™ i7-5650U (2x2.20GHz, GT3, 15W) Intel® Core™ i5-5350U (2x1.80GHz, GT3, 15W) Intel® Core™ i3-5010U (2x2.10GHz, GT2, 15W) Intel® Celeron® 3755U (2x1.70GHz, GT1, 15W)	Intel® Core™ i7-4650U, i5-4300U, i3-4010U Intel® Celeron® 2980U	COMe-cBTc6: Intel® Atom™ E3815; Intel® Celeron® J1900, N2920, N2930, N2807 COMe-cBTi6: Intel® Atom™ E3845, E3827, E3826, E3825, E3815	Intel® Atom™ E3845, E3827, E3826, E3825, E3815
CHIPSET	-	Intel® 8-Series LynxPoint-LP integrated in CPU	-	-
MAIN MEMORY	1x DDR3L-1866 SO-DIMM up to 8GB, 1x DDR3L-1600 memory down up to 8GB	1x DDR3L-1600 SO-DIMM up to 8GB, 1x DDR3L-1600 memory down 2-4GB	2x DDR3L-1333 SODIMM up to 2x4GB	2x DDR3L-1333 ECC memory down up to 4GB or 2x DDR3L-1333 memory down up to 8GB
GRAPHICS CONTROLLER	Intel® HD6000 (GT3), Intel® HD5500 (GT2), Intel® HD Graphics (GT1)	Intel® HD5000 (GT3), Intel® HD4400 (GT2), Intel® HD Graphics (GT1)	Intel® HD Graphics (Gen7)	Intel® HD Graphics (Gen7)
ETHERNET CONTROLLER	Intel® I218LM	Intel® I218LM	COMe-cBTc6 Intel® I211AT COMe-cBTi6 Intel® I210IT	USB SMSC LAN7500i, PCIe Intel® I210IT optional
ETHERNET	10/100/1000 MBit Ethernet	10/100/1000 MBit Ethernet	10/100/1000 MBit Ethernet	10/100/1000 MBit Ethernet
HARD DISK	4x SATA 6Gb/s	4x SATA 6Gb/s	2x SATA 3Gb/s	2x SATA 3Gb/s
FLASH ONBOARD	-	-	on E3800 CPU only: 2 - 64GB eMMC, 1x microSD Socket	2 - 64GB eMMC, 1x microSD Socket
PCI EXPRESS® / PCI SUPPORT	4x PCIe Gen 2.0	4x PCIe Gen 2.0	3x PCIe x1	4x PCIe Gen 2.0
PANEL SIGNAL	DDI1: DP++, DDI2: DP++, DDI3: -, VGA: -, LVDS: Dual Channel 18/24bit	DDI1: DP++, DDI2: DP++, DDI3: -, VGA: -, LVDS: Dual Channel 18/24bit	DDI1: DP++, DDI2: DP++ (shared w/LVDS), DDI3: -, VGA: Yes, LVDS: Dual Channel 18/24bit	DDI1: DP++, DDI2: DP++ (shared w/LVDS), DDI3: -, VGA: Yes, LVDS: Dual Channel 18/24bit
USB	2x USB 3.0, 6x USB 2.0	2x USB 3.0, 6x USB 2.0	1x USB 3.0 (incl. USB 2.0), 3x USB 2.0 from CPU, on COMe-cBTi6 Version only: 4x USB 2.0 from HSIC Hub	1x USB 3.0 (incl. USB 2.0), 2x USB 2.0 from CPU, 4x USB 2.0 from HSIC Hub, 1x USB OTG
SERIAL	2x serial interface (RX/TX only)	2x serial interface (RX/TX only)	2x serial interface (RX/TX only)	2x serial interface (RX/TX only)
AUDIO	Intel® High Definition Audio	Intel® High Definition Audio	Intel® High Definition Audio	Intel® High Definition Audio
COMMON FEATURES	SPI, LPC, SMB, Fast I <sup>2</sup> C, Staged Watchdog, RTC, MARS	SPI, LPC, SMB, Fast I <sup>2</sup> C, Staged Watchdog, RTC, MARS	SPI, LPC, SMB, Fast I <sup>2</sup> C, Staged Watchdog, RTC, MARS	SPI, LPC, SMB, Fast I <sup>2</sup> C, Staged Watchdog, RTC, MARS
BIOS	Phoenix Secure Core UEFI	Phoenix Secure Core UEFI	Phoenix Secure Core UEFI	Phoenix Secure Core UEFI
OPTIONS	1x PCIe x4 additional w/o onboard LAN, eDP instead of LVDS, vPRO (AMT/TXT/AES Support)	1x PCIe x2 additional w/o onboard LAN, eDP instead of LVDS, vPRO (AMT/TXT/AES Support)	1x PCIe x1 additional w/o onboard LAN, Trusted Platform Module TPM 1.2, on E38xx CPU only: eMMC Flash on board (2-32GB SLC, 4-64GB MLC), AES-NI	ECC or non-ECC memory, eMMC Flash onboard (2-32GB SLC, 4-64GB MLC), microSD Socket, PCIe GBEthernet, AES-NI
POWER MANAGEMENT	ACPI 4.0, S5 Eco	ACPI 4.0, S5 Eco	ACPI 4.0, S5 Eco	ACPI, S5 Eco Kontron Rapid Shut down Technology
POWER SUPPLY	8.5V – 20V Wide Range, Single Supply Power	8.5V – 20V Wide Range, Single Supply Power	4.75V – 20V Wide Range, Single Supply Power	4.75V – 20V Wide Range, Single Supply Power
SPECIAL FEATURES	POSCAP capacitors, Trusted Platfom Module TPM 1.2, 4k Resolutions	POSCAP capacitors, Trusted Platfom Module TPM 1.2, 4k Resolutions	POSCAP capacitors, LVDS/DP Multiplexer	POSCAP capacitors, GPIO/SDIO Switch, LVDS/DP Multiplexer, 2x MIPI-CSI on PEG interface
OPERATING SYSTEM	Windows® 8, Windows® 7, WE8S, WES7, Linux, VxWorks	Windows® 8, Windows® 7, WE8S, WES7, Linux, VxWorks	Windows® 8, Windows® 7, WE8S, WES7, Linux, VxWorks	Windows® 8, Windows® 7, WE8S, WES7, Linux, VxWorks
TEMPERATURE	Commercial temperature: 0°C to +60°C operating, -30°C to +85°C non-operating -25°C to +75°C operating, -30°C to +85°C non-operating	Commercial temperature: 0°C to +60°C operating Extended temperature: -25°C to +75°C operating	Commercial temperature: 0°C to +60°C operating Industrial temperature: -40°C to +85°C operating	Industrial temperature: -40°C to +85°C operating

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