

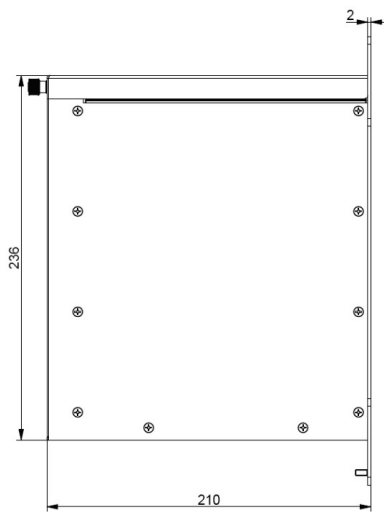
KBox C-104-TGL-x



High-End Industrial Computer Platform for Control Cabinet Applications

- Based on 11th Gen Intel® Core™ or Xeon® W for demanding applications
- Highest system availability: Fanless up to 65 °C, Goldcap option, Redundant PSU option, Recovery button
- Optimized for Control and Soft-PLC applications: Fieldbus and NVRAM option, Intel® TCC and TSN

	KBox C-104-TGL-4	KBox C-104-TGL-2	KBox C-104-TGL-1	KBox C-104-TGL-0
PROCESSORS	11th Generation Intel® processors via COM Express® type 6 modules: - Xeon® W-11865MRE: 8x 2.6 GHz, 24 MByte cache, Intel® TCC and TSN - Xeon® W-11555MRE: 6x 2.6 GHz, 12 MByte cache, Intel® TCC and TSN - Core™ i7-11850HE: 8x 2.6 GHz, 24 MByte cache - Core™ i7-1185GRE: 4x 1.8 GHz, 12 MByte cache, Intel® TCC and TSN - Core™ i5-11500HE: 6x 2.6 GHz, 12 MByte cache - Core™ i5-1145GRE: 4x 1.5 GHz, 8 MByte cache, Intel® TCC and TSN - Core™ i3-11100HE: 4x 2.4 GHz, 8 MByte cache - Celeron® 6600HE: 2x 2.6 GHz, 8 MByte cache			
PLATFORM CONTROLLER HUB	Intel® QM580E, HM570E for Celeron®, RM590E for Xeon® W			
MEMORY	Up to 64 GByte DDR4 RAM, non-ECC/ECC			
NON-VOLATILE RAM (NVRAM)	1 MByte MRAM, available on project request			
INTERFACES	4x 2.5 GbE with TSN support, WOL 3x USB 3.0, 3x USB 2.0 2x DisplayPort 1x COM port RS232/RS422/RS485 8x LED incl. 4x GPIO LED 2x Buttons: Power/Reset & Recovery			
OPTIONAL INTERFACES	CAN module for layer 2 CAN 2nd/3rd COM port RS232/RS422/RS485 3rd DisplayPort 2nd 24 VDC power input, hot standby functionality Profibus, Profinet or Ethercat Fieldbus Options for WIFI, 4G/LTE or 5G			
STORAGE DRIVES	1x M.2 2280 M-Key and 1x M.2 2280 B-Key, 2x 2.5" SATA SSD/HDD internal, optional accessible via removable drive assemblies	1x M.2 2280 M-Key and 1x M.2 2280 B-Key, 2x 2.5" SATA SSD/HDD internal, optional accessible via removable drive assemblies	1x M.2 2280 M-Key and 1x M.2 2280 B-Key, 1x 2.5" SATA SSD/HDD internal, optional accessible via removable drive assembly	1x M.2 2280 M-Key and 1x M.2 2280 B-Key, 1x 2.5" SATA SSD/HDD internal
EXPANSIONS	2x PCIe x4 + 2x PCIe x1, 1x M.2 3052 B-Key for LTE/5G expansion w. SIM card socket 1x mPCIe for Fieldbus or WIFI expansion	2x PCIe x4 or 1x PCIe x8, 1x M.2 3052 B-Key for LTE/5G expansion w. SIM card socket 1x mPCIe for Fieldbus or WIFI expansion	1x PCIe x4 or 1x PCIe x8, 1x M.2 3052 B-Key for LTE/5G expansion w. SIM card socket 1x mPCIe for Fieldbus or WIFI expansion	1x M.2 3052 B-Key for LTE/5G expansion w. SIM card socket 1x mPCIe for Fieldbus or WIFI expansion
POWER SUPPLY	24 VDC (17-36 VDC), up to 20 ms hold-up			
DIMENSION (H X W X D)	With Mounting brackets for Control Cabinet Mounting 290 x 195 x 210 mm (11.42" x 7.68" x 8.27") W/O Mounting Brackets 236 x 195 x 210 mm (9.29" x 7.68" x 8.27")	With Mounting brackets for Control Cabinet Mounting 290 x 155 x 210 mm (11.42" x 6.1" x 8.27") W/O Mounting Brackets 236 x 155 x 210 mm (9.29" x 6.1" x 8.27")	With Mounting brackets for Control Cabinet Mounting 290 x 130 x 210 mm (11.42" x 5.12" x 8.27") W/O Mounting Brackets 236 x 130 x 210 mm (9.29" x 5.12" x 8.27")	With Mounting brackets for Control Cabinet Mounting 290 x 117 x 210 mm (11.42" x 4.61" x 8.27") W/O Mounting Brackets 236 x 117 x 210 mm (9.29" x 4.61" x 8.27")
MOUNTING	Control cabinet key holes, book size format Sidewall mounting optional			
COOLING	Fanless, optional with FAN			
ENVIRONMENTAL OPERATING TEMPERATURE STORAGE TEMPERATURE CLIMATIC HUMIDITY	with Intel® Core™ i5-1145GRE and Core™ i7-1185GRE: -40 °C to +65 °C (-40 °F to 149 °F) -40 °C to +75 °C (-40 °F to 167 °F) 93 % RH at 40 °C, non-condensing (acc. to IEC 60068-2-78)			
APPROVALS	CE, CB, UL, FCC			
SOFTWARE SUPPORT	Windows® 10 IOT LTSC 2021, Linux			
SECURITY FEATURES	TPM 2.0 controller			
WEIGHT	6 kg (13.22 lbs.)	4.75 kg (10.47 lbs.)	4.6 kg (10.14 lbs.)	3.8 kg (8.37 lbs.)



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