

KBox R-101



High-End Industrial Computer Platform for Railway and Harsh Industrial Applications

- ▶ Based on Intel Atom® x6212RE or 11th Gen Intel® Core™ i7 processors
- ▶ Optimized for transportation & harsh industrial applications: EN50155 compliant, IP54 protected, M12 connectors, extended temperature range
- ▶ Wireless communication capabilities: Options for WLAN, LTE, 5G, UMTS, GSM, LPWA, GPS/GLONASS

		KBOX R-101-TGL	KBOX R-101-EKL
PROCESSOR	CPU MAX. SPEED SYSTEM CHIPSET BIOS	11th Gen. Intel® Core™ Core™ i7-1185GRE Quad-Core 1.8 GHz / 4.4 GHz (Burst) Integrated AMI® Aptio V5	Intel Atom® x6212RE Dual-Core 1.2 GHz Integrated AMI® Aptio V5
MEMORY	TECHNOLOGY MAX. CAPACITY SOCKET	DDR4 3200 MHz Up to 32 GByte 1x soldered + 1x SODIMM	DDR4 3200MHz Up to 32 GByte 2x SODIMM
GRAPHICS	GRAPHICS CORE MAX. RESOLUTION	Intel® Iris® Xe Graphics 7680 x 4320 @ 60Hz	Intel® UHD Graphics 4096 x 2160 @ 60Hz
INTERFACES FRONT	GRAPHICS PORTS/USB ETHERNET SERIAL PORTS BUTTONS / LED ANTENNAS	1x USB-C 3x 2.5GbE via M12 X-coded 2x isolated COM ports: 1x RS232, 1x RS422/485 1x Power LED, 8x User/GPIO LEDs, Ethernet LEDs: 3x LAN + 3x ACT 6x cut-outs for antennas SMA/QMA	1x USB-C 2x 2.5GbE, 1x GbE via M12 X-coded 2x isolated COM ports: 1x RS232, 1x RS422/485 1x Power LED, 8x User/GPIO LEDs, Ethernet LEDs: 3xLAN + 3x ACT 6x cut-outs for antennas SMA/QMA
INTERFACES REAR / SERVICE INTERFACES	GRAPHICS PORTS USB	1x DisplayPort 2x USB 2.0	1x DisplayPort 2x USB 2.0
STORAGE DRIVES	M.2 CFEXPRESS	1x M.2 Key-M 2230/2242/2280, PCIe and SATA 1x CFExpress slot, available on the rear, behind cover-plate	1x M.2 Key-M 2230/2242/2280, SATA only 1x CFExpress slot, available on the rear, behind cover-plate
EXPANSION SLOTS	M.2	1x M.2 Key-E 2230/2242/3030/3042 1x M.2 Key-B 2242/3042/3052 with 2x uSIM slots	1x M.2 Key-E 2230/2242/3030/3042 1x M.2 Key-B 2242/3042/3052 with 2x uSIM slots
OPTIONAL INTERFACES	IO CONNECTOR	Internal Expansion Connector for custom expansion	-
SOFTWARE SUPPORT	OPERATING SYSTEM	Linux	Linux
SECURITY FEATURES	SECURITY CHIP	TPM 2.0	TPM 2.0
POWER	INPUT VOLTAGE RANGE	24V to 110V DC nominal (EN50155), 10ms hold-up time (class S2)	24V to 110V DC nominal (EN50155), 10ms hold-up time (class S2)
MECHANICAL	CONSTRUCTION MOUNTING DIMENSIONS (W X H X D) WEIGHT	Steel Wall mount, DIN Rail 220 x 70 x 200 mm (8.66" x 2.76" x 7.87") approx. 2 kg (approx. 4.4 lbs.)	Steel Wall mount, DIN Rail 220 x 70 x 200 mm (8.66" x 2.76" x 7.87") approx. 2 kg (approx. 4.4 lbs.)
ENVIRONMENT	COOLING OPERATING TEMPERATURE RELATIVE HUMIDITY VIBRATION SHOCK IP PROTECTION CLASS	Fanless -40 °C to +70 °C, 10 min +85°C (-40 °F to 158 °F, for 10min 185 °F) +25/+55 °C 90-100 % Acc. EN 61373:2010, CAT 1 class B Acc. EN 61373:2010, CAT 1 class B IP54	Fanless -40 °C to +70 °C, 10 min +85°C (-40 °F to 158 °F, for 10min 185 °F) +25/+55 °C 90-100 % Acc. EN 61373:2010, CAT 1 class B Acc. EN 61373:2010, CAT 1 class B IP54
APPROVALS	CERTIFICATIONS	UL/CB/CE/FCC	UL/CB/CE/FCC

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