

TAICENN Embedded Box PC TBOX series

White Paper v01



--- Special featured design, unique reliability & stability

TAICENN TBOX series are rugged, compact, fan-less design, high-performance, lower power consumption designed embedded Box PC. TAICENN TBOX uses full-sealed Box structure, it can prevent dust from entering the device system; Large aluminum fin heat sink can distribute the heat effectively and quickly; TBOX series can be widely used in industrial & automation application environment, has been qualified and used in all kinds of industrial & embedded, automation projects.

Fan-less design, high performance & low consumption:

Optional with Baytrail, Apollo lake, Broadwell, Skylake CPU processors, high performance, and low power consumption.

Full-sealed aluminum structure:

Full-sealed design, Large fin heat sink design, effectively heat distribution, beautiful appearance design.

Wide voltage design, and wide temp. range design:

Different Wide voltage design to meet different application situations; High quality mainboard & components, special

rugged design to support industrial wide temp. range $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$; All series product optional support $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ range, for some rugged applications and requirements.

Compact & small design

Compact and small complete machine design, extreme small dimension, easy to mount and carry.

Plentiful I/O options, cost effective design

Several versions box structure design to provide plentiful I/O options; Different I/O options for better cost effectivity.

Basic Specs	
TBOX Series	TBOX-1, TBOX-2, TBOX-3
CPU Options	Intel Baytrail J1900 2.0Ghz; Intel Apollo lake J3455/J3355 1.5Ghz/2.0Ghz; Intel Broadwell I3-5010U/I5-5200U/I7-5500U 2.1Ghz/2.2Ghz/2.4Ghz; Intel Skylake I3-6100U/I5-6200U/I7-6500U 2.3Ghz/2.3Ghz/2.5Ghz.
Memory	DDR3L or DDR4L, up to 8GB/16GB
Display	Support Multi-display, HDMI / VGA, support 1080P video
Storage	mSATA or 2.5-inch SATA options
Network	2x GLAN (TBOX-3 support PoE)
USB	4 or 6 USB ports, USB 2.0 or USB 3.0
Serial ports	RS232/ RS422/ RS485 (Optional in different models)
Digital I/O	TBOX-3 support 16x DI & DO
Power Input	DC 9~24V, DC12V, DC 12~19V
Color	Silver (black)
Weight	1KG/1.5KG/1.7KG
Working temp.	-20°C ~ +70°C
Wide. Temp.	Optional -40°C ~ +70°C
Storage temp.	-40°C ~ +70°C
Relative humidity	10 ~95% (No condensation)
Vibration	50~500 Hz, 1.5G, 0.15mm peak to peak
Shock	10G/peak (11ms/sec)
Certificate	CE ROHS FCC



TAICENN Technology

TAICENN, is a leading global solution provider of Embedded Box IPC, Touch panel IPC and industrial monitor, which are designed specifically for systems and applications that require excellent performance, high-level reliability and stability, long supply period and supports.

The information in this specification is subject to change without notice

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