COMPACT BOX PC
KBox F-SERIES

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About Kontron – Member of the S&T Group

Kontron is a global leader in IoT/Embedded Computing Technology (ECT). As a part of technology group S&T, Kontron offers a combined portfolio of secure hardware, middleware and services for Internet of Things (IoT) and Industry 4.0 applications. With its standard products and tailor-made solutions based on highly reliable state-of-the-art embedded technologies, Kontron provides secure and innovative applications for a variety of industries. As a result, customers benefit from accelerated time-to-market, reduced total cost of ownership, product longevity and the best fully integrated applications overall.

For more information, please visit: **www.kontron.com**

About the Intel® Partner Alliance

From modular components to market-ready systems, Intel and the over 1,000+ global member companies of the Intel® Partner Alliance provide scalable, interoperable solutions that accelerate deployment of intelligent devices and end-to-end analytics. Close collaboration with Intel and each other enables Alliance members to innovate with the latest IoT technologies, helping developers deliver first-in-market solutions.

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intel
partner Titanium
          IoT
          Solutions

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PRODUCT CONTACT POINT

Kontron Asia Inc.

4F, No. 415, Ti-Ding Blvd., Sec. 2,
Neihu District, Taipei, Taiwan 114741
Tel.: +886 2 2799 2789
Fax: +886 2 2799 7399
SalesAsia@kontron.com

www.kontron.com

▶ **EXCELLENT GRAPHICS PERFORMANCE**
Intel® Core™ processors

▶ **4K UHD SUPPORT**
DP / HDMI 2.0 video output interface

▶ **COMPACT SIZE**
Space-saving flexibility

POSSIBILITIES START HERE **kontron**
                           S&T Group

KBox F-SERIES
COMPACT BOX PC

KBox F-22x / KBox F-21x

KBox F-11x / KBox F-10x

		KBox F-22x / KBox F-21x	KBox F-11x / KBox F-10x
SYSTEM	PROCESSOR	7th Gen. Intel® Core™ S-Series (LGA1151, up to 35 W TDP) Intel® Celeron® G3930 / G3950 Series (LGA1151, up to 35 W TDP) 6th Gen. Intel® Core™ S-Series (LGA1151, up to 45 W TDP) Intel® Celeron® G3900 / G3920 Series (LGA1151, up to 45 W TDP)	Intel® Core™ i5-7200U (Dual Core, 3M Cache, up to 3.10 GHz, BGA1356, 15 W TDP) Intel® Celeron® 3965U (Dual Core, 2M Cache, 2.20 GHz, BGA1356, 15 W TDP) Intel® Core™ i5-6200U (Dual Core, 3M Cache, up to 2.80 GHz, BGA1356, 15 W TDP)
	CHIPSET	Intel® Q170 Intel® H110	-
	MEMORY	2x DDR4 2133 / 2400 SO-DIMM up to 32 GByte (7th Gen. Core™) 2x DDR4 2133 SO-DIMM up to 32 GByte (G3930 / G3950) 2x DDR4 2133 SO-DIMM up to 32 GByte (6th Gen. Core™) 2x DDR4 1866 / 2133 SO-DIMM up to 32 GByte (G3900 / G3920)	2x DDR4 2133 SO-DIMM up to 32 GByte
VIDEO	GRAPHICS CONTROLLER	Intel® HD Graphics 630 (7th Gen. Core™) Intel® HD Graphics 610 (Celeron® G3930 / G3950) Intel® HD Graphics 530 (6th Gen. Core™) Intel® HD Graphics 510 (Celeron® G3900 / G3920)	Intel® HD Graphics 620 (Core™ i5-7200U) Intel® HD Graphics 610 (Celeron® 3965U) Intel® HD Graphics 520 (Core™ i5-6200U)
	VIDEO INTERFACE	1x DP (4096 x 2304 @ 60 Hz, on rear) 2x HDMI 2.0* (4096 x 2160 @ 60 Hz, on rear)	1x DP (4096 x 2304 @ 60 Hz, on rear) 1x HDMI (4096 x 2160 @ 24 Hz, on rear)
	MULTIPLE DISPLAY	Triple (Q170) Dual (H110)	Dual
AUDIO	AUDIO CODEC	Realtek ALC662	Realtek ALC662
	AUDIO INTERFACE	1x Line-in (on front) 1x Line-out (on front) 1x Mic-in (on front) 1x S/PDIF (on front)	1x Line-out / Mic-in (on front)
ETHERNET	LAN PORT	2x GbE LAN (RJ45 on rear, Intel® I219-LM, Intel® I210-AT)	1x GbE LAN (RJ45 on rear, Intel® I219)
PERIPHERAL	USB	6x USB 3.0 (Type A on front, Q170) 4x USB 3.0 (Type A on front, H110) 2x USB 2.0 (Type A on front, chipset)	4x USB 3.0 (Type A on front)
	SERIAL PORT	1x RS232/422/485 (DB9 on rear)	1x RS232/422/485 (DB9 on rear)
STORAGE & EXPANSION	SATA	1x 2.5" SATA 3.0 HDD / SSD	1x 2.5" SATA 3.0 HDD / SSD
	mSATA / mPCIe	2x mSATA / mPCIe (1x full size linked to SIM holder, 1x half, Q170) 2x mPCIe (1x full size linked to SIM holder, 1x half size, H110)	1x mPCIe (full size, linked to SIM wafer)
POWER	INPUT VOLTAGE	DC 19 V (Lockable DC Jack on rear)	DC 12 V ~ 19 V (Lockable DC Jack on rear) DC 24 V (2-pin Phoenix Connector on rear)
SECURITY	TPM	TPM 2.0 (Infineon SLB 9665, 7th Core™ / G3930 / G3950 +Q170) TPM 1.2 (Infineon SLB 9660, 6th Core™ / G3900 / G3920 +Q170)	TPM 2.0 (Infineon SLB 9665, optional)
COOLING	FAN	1x CPU Smart Fan	1x CPU Smart Fan
SOFTWARE	OPERATING SYSTEM	Windows 10, Linux	Windows 10, Linux
MECHANICAL	DIMENSIONS	200 mm x 152.8 mm x 41.5 mm / 7.87" x 6.02" x 1.63"	130 mm x 111 mm x 35 mm / 5.12" x 4.37" x 1.38"
	MOUNTING	VESA Mount	VESA Mount
ENVIRONMENTAL	OPERATING TEMP.	0 °C ~ 40 °C / 32 °F ~ 104 °F	0 °C ~ 50 °C / 32 °F ~ 122 °F
COMPLIANCE	SAFETY CERTIFICATION	CE Class A, FCC Class A	CE Class A, FCC Class A

(* HDMI 2.0 function is not applicable to the following monitors: LG 27MU67-B, LG 27UD68, AOC U2879VF, LG 65UF850T, QD980, Dell S2817Q & ASUS MX27UQ.)

▶ **KBox F-SERIES COMPACT BOX PC**

KBox F-Series is a collection of performance-oriented compact box PCs designed for graphics-intensive applications, such as digital signage, kiosk / POI, high-end medical imaging, gaming or similar infotainment products.