



## Flexy Vision 13.3 ARM Panel PC with 13.3" LCD display based on Rockchip RK3399 SoC

### Flexibility Meets Style For Endless Visual Display Applications



#### HIGHLIGHTS

<b>CPU</b> Rockchip RK3399 processor	<b>CONNECTIVITY</b> 2x GbE; 2x RS-232 or RS-485 on DB-9 connector; 2x USB 3.0 + 2x USB 2.0 ports
<b>GRAPHICS</b> 50K Hours 1920x1080 LVDS display with projected capacitive touchscreen integrated	<b>MEMORY</b> Soldered-down LPDDR4 memory, up to 4GB total



#### MAIN FIELDS OF APPLICATION



Digital Signage - Infotainment



Industrial Automation



Vending

#### FEATURES

<b>CPU</b>	Rockchip RK3399 processor, 2x Cortex®-A72 MP cores + 4x Cortex®-A53 MPCores, up to 1.8GHz, 64-bit architecture	<b>USB</b>	1x USB 3.0 Type-C port (Alternate mode with DP) 1x USB 3.0 Host port on Type-A socket 2 x USB 2.0 Host ports on Dual Type-A socket
<b>Memory</b>	Soldered-down LPDDR4 memory, up to 4GB total, 64-bit interface	<b>Audio</b>	TRRS Audio Jack (Combo MicIn + Lineout)
<b>Embedded Graphics</b>	4-Core Mali-T860MP4 GPU, supporting OpenGL ES 1.1/2.0/3.0/3.1, OpenVG 1.1, OpenCL Embedded VPU, able to offer: <ul style="list-style-type: none"> <li>H.265 10-bit, H.264 10-bit, VP9 8-bit 4Kx2K@60fps HW Decoding</li> <li>MPEG-4/MPEG-2/VP8 1080p@60fps HW Decoding</li> <li>H.264, VP8 1080p@30fps HW encoding</li> </ul> Dual Display support	<b>Serial Ports</b>	2x RS-232 or RS-485 (factory option) on DB-9 connectors
<b>Video Section</b>	13.3" LVDS display, resolution 1920x1080, LED lifetime 50K hours life min, 260cd/m2 min. brightness P-Cap (Projected Capacitive touch screen), with 3.0mm glass cover Glass Hardness IK07, Surface Hardness 7H	<b>Other Interfaces</b>	Power ON Button with integrated LED Optional Ultra Low Power SPI RTC Optional CAN ports (up to 2x) Optional, 4x GPIOs
<b>Video Interfaces</b>	HDMI 4K interface DP 1.2 interface on USB Type-C connector (alternate mode)	<b>Power Supply</b>	Main Power: 12V <sub>DC</sub> .. 24V <sub>DC</sub> Power In connectors: DC Power Jack.
<b>Mass Storage</b>	eMMC drive soldered on-board, up to 64GB Optional SPI Flash	<b>Operating System</b>	Linux
<b>Networking</b>	2x Gigabit Ethernet port Soldered on-board M.2 1216 WLAN 802.11 a/b/g/n/ac + BT 5.0 module* On-board LTE Modem*	<b>Operating Temperature*</b>	0°C ÷ 50°C
		<b>Dimensions</b>	349,2 x 220,8 x 58 mm

\*Measured at any point of the heatspreader/heatsink during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.

\*Certification upon request

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## Display touch kit specifications

- P-Cap (Projected-Capacitive touch technology) - Glass cover
- Glass Hardness: IK07
- Surface Hardness: 7H
- Thickness: 3.0mm
- Air bonding

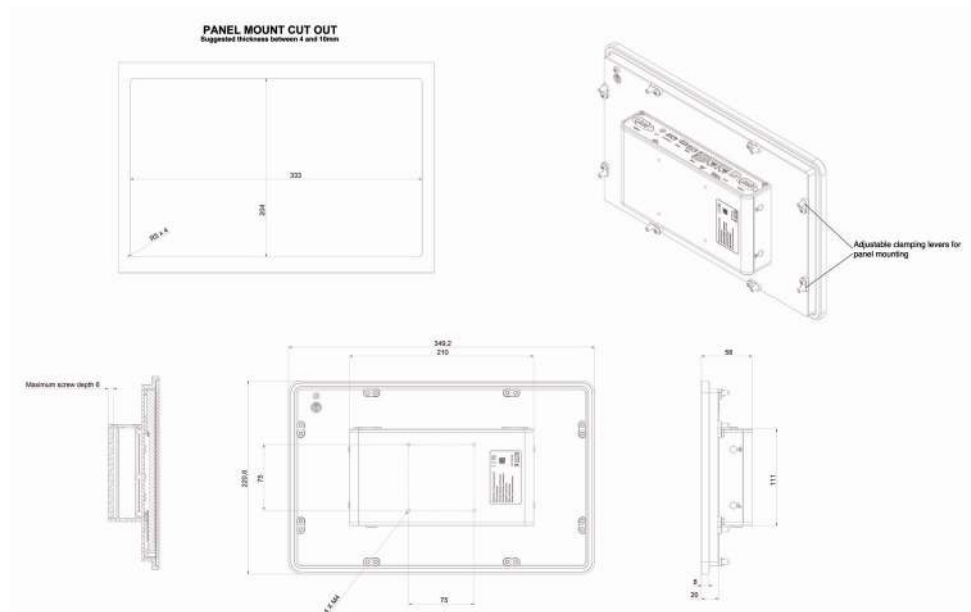
## LCD General specifications

Item	Specification
LCD Size	13.3"
Resolution	1920x1080
Display Mode	Advanced Hyper-Viewing Angle (AHVA)
Display colours	16.7M colours
Pixel pitch	0.15285 (H) x 0.15285 (V) mm
Active Area	233.472 (H) x 165.078 (V) mm
Module Size	309.7 (H) x 184.1 (V) x 9.6 (T) mm, typ.
Pixel Arrangement	RGB Vertical Stripe
Surface Treatment	Anti-Glare, Anti Fingerprint
Interface	LVDS
Luminance	260cd/m2 (min.), 320cd/m2 (Typ.)
Backlight Power Consumption	15W (Max)
Panel Power Consumption	1.8W (Max)

## Optical specifications

Item	Symbol	Condition	Values (degree)		
			Min.	Typ.	Max.
Viewing angle (CR≥ 10)	$\theta_L$	$\Phi=180^\circ$ (9 o'clock)	75	89	-
	$\theta_R$	$\Phi=0^\circ$ (3 o'clock)	75	89	-
	$\theta_T$	$\Phi=90^\circ$ (12 o'clock)	75	89	-
	$\theta_B$	$\Phi=270^\circ$ (6 o'clock)	75	89	-

## Panel mount/VESA mount\*



\* all dimension are in mm