



ODM for you. Not only hardware, but also software



L180 / L220

Debian Linux All in One 18.5"/ 21.5" Panel PC

The L180/ L220 is Debian9 all in one panel PC with 18.5"/ 21.5" LCD. With its 1366 x 768 HD/ 1920 x 1080 FHD resolution and supports 10-point projected capacitive multi-touch function, L180/ L220 offers the user powerful interactive service for different solution. L180/ L220 supports VESA mount built-in, user can put it on place that he needs. Also, integrated Wi-Fi and LAN (RJ45) for connection to the Internet.

Interface:



- 3.5mm Audio Jack
- USB
- Micro SD card
- HDMI Output
- RJ45 Ethernet
- Power

Standard VESA 75mm x 75mm / 100mmx100mm for VESA mount or mounting stand



Product Feature

- Debian 9
- Quad-Core ARM Cortex-A17CPU 2.2G Hz equipped
- H.265/HEVC Video Decode
- Support User assign the APK for execution right after the system starts up
- PoE support and compliance with IEEE802.3at and IEEE802.3af
- Support 10-point projected capacitive multi-touch
- VESA mount built-in with 75mm x 75mm (L180) / 100mm x 100 mm (L220)

Product Specification		
Model Number	L180	L220
Operation System	Debian 9	Debian 9
Hardware specification		
LCD size	18.5"	21.5"
CPU (SoC)	Quad-Core ARM Cortex-A17 2.2GHz	Quad-Core ARM Cortex-A17 2.2GHz
GPU	Mali T764	Mali T764
RAM	DDR3-2GB	DDR3-2GB
Storage	8GB eMMC (default) / 16GB eMMC (optional)	8GB eMMC (default) / 16GB eMMC (optional)
Resolution	1366 x 768 HD resolution	1920x1080 FHD resolution
Brightness	350 nits	250 nits
Touch screen	PCAP touch (10 point multi-touch)	PCAP touch (10 point multi-touch)
Language	Default: English ; Multi-Language support	Default: English ; Multi-Language support



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Network		
WiFi	802.11 b/g/n (default), 802.11ac (optional)	802.11 b/g/n (default), 802.11ac (optional)
Ethernet	Giga Ethernet 10/100/1000 Mbits	Giga Ethernet 10/100/1000 Mbits
Bluetooth	4.0 BLE	4.0 BLE
Interface		
HDMI Output	support Dual Display function	support Dual Display function
USB port	USB port x 1	USB port x 1
Micro SD Card	Micro SD card x 1	Micro SD card x 1
Ear Phone	3.5mm ear phone jack	3.5mm ear phone jack
Power Input	Power adaptor input	Power adaptor input
Network	RJ45 LAN Port x 1	RJ45 LAN Port x 1
Front Camera	2M Pixel	2M Pixel
Micro Phone	Micro phone inside	Micro phone inside
VESA Mount	VESA mount built-in with 75mm x 75mm	VESA mount built-in with 100mm x 100mm
Video Streaming		
UDP Streaming	Support multicast UDP stream decode	Support multicast UDP stream decode
RTSP Streaming	Support RTSP stream decode	Support RTSP stream decode
HLS Streaming	Support HLS stream	Support HLS stream
Media Parameter		
Video Decoder	<p>Real-time video decoder of MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, RV, VP6/VP8, Sorenson Spark, MVC</p> <p>Error detection and concealment support for all video formats</p> <p>Output data format is YUV420 semi-planar, and YUV400(monochrome) is also supported for H.264</p> <p>H.264 up to HP level 5.2 : 2160p@24fps (3840x2160)</p> <p>MPEG-4 up to ASP level 5 : 1080p@60fps (1920x1088)</p> <p>MPEG-2 up to MP : 2160p@24fps (3840x2160)</p> <p>MPEG-1 up to MP : 1080p@60fps (1920x1088)</p> <p>H.263 : 576p@60fps (720x576)</p> <p>Sorenson Spark : 1080p@60fps (1920x1088)</p> <p>VC-1 up to AP level 3 : 1080p@30fps (1920x1088)</p> <p>RV8/RV9/RV10 : 1080p@60fps (1920x1088)</p> <p>VP6/VP8 : 2160p@24fps (3840x2160)</p> <p>AVS : 1080p@60fps (1920x1088)</p> <p>MVC : 2160p@24fps (3840x2160)</p> <p>For AVS, 4:4:4 sampling not supported</p> <p>For H.264, image cropping not supported</p> <p>For MPEG-4, GMC(global motion compensation) not supported</p> <p>For VC-1, upscaling and range mapping are supported in image post-processor</p> <p>For MPEG-4 SP/H.263/Sorenson spark, using a modified H.264 in-loop filter to implement deblocking filter in post-processor unit</p>	<p>Real-time video decoder of MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, RV, VP6/VP8, Sorenson Spark, MVC</p> <p>Error detection and concealment support for all video formats</p> <p>Output data format is YUV420 semi-planar, and YUV400(monochrome) is also supported for H.264</p> <p>H.264 up to HP level 5.2 : 2160p@24fps (3840x2160)</p> <p>MPEG-4 up to ASP level 5 : 1080p@60fps (1920x1088)</p> <p>MPEG-2 up to MP : 2160p@24fps (3840x2160)</p> <p>MPEG-1 up to MP : 1080p@60fps (1920x1088)</p> <p>H.263 : 576p@60fps (720x576)</p> <p>Sorenson Spark : 1080p@60fps (1920x1088)</p> <p>VC-1 up to AP level 3 : 1080p@30fps (1920x1088)</p> <p>RV8/RV9/RV10 : 1080p@60fps (1920x1088)</p> <p>VP6/VP8 : 2160p@24fps (3840x2160)</p> <p>AVS : 1080p@60fps (1920x1088)</p> <p>MVC : 2160p@24fps (3840x2160)</p> <p>For AVS, 4:4:4 sampling not supported</p> <p>For H.264, image cropping not supported</p> <p>For MPEG-4, GMC(global motion compensation) not supported</p> <p>For VC-1, upscaling and range mapping are supported in image post-processor</p> <p>For MPEG-4 SP/H.263/Sorenson spark, using a modified H.264 in-loop filter to implement deblocking filter in post-processor unit</p>
Image browser	JPEG, BMP, PNG	JPEG, BMP, PNG



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Others		
Operating Temperature	0 ~ 45°C	0 ~ 45°C
Storage Temperature	-20°C ~ 50°C	-20°C ~ 50°C
Humidity environment	5% ~ 90% (No condensation)	5% ~ 90% (No condensation)
Power Supply (AC Adapter)	100 ~ 240 V AC, 50/60 Hz, DC output: 12V/ 2.5A	100 ~ 240 V AC, 50/60 Hz, DC output: 12V/ 2.5A
Dimension	41.6 cm x 28.2 cm x 3.6 cm	53.9 cm x 33.2 cm x 3.8 cm
Accessories	AC Adapter / Brown BOX	AC Adapter / Brown BOX