

Cortex™-A9 on Freescale™ i.MX 6 Series

■ Freescale™ i.MX6 Cortex™-A9 Panel PC

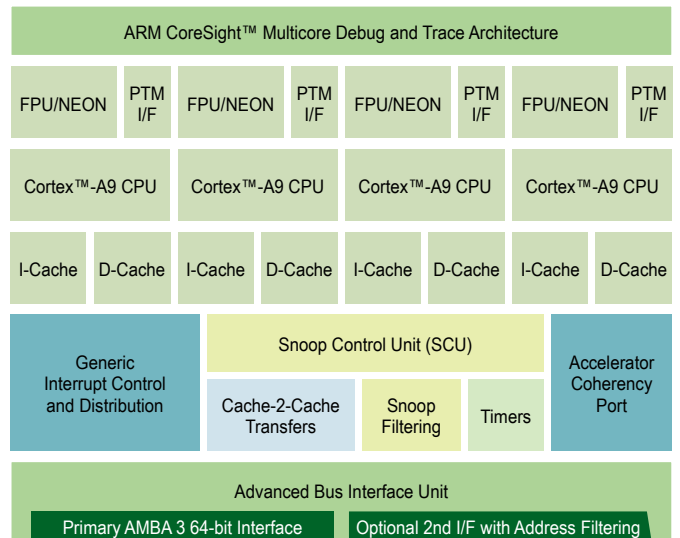
With 12/15/17-inch touchscreen, the IOVU-12/15/17 series wall-mounted PC integrates energy-efficient Freescale™ quad-core processors with Android 4.2 operating system. The IOVU-12/15/17 offers a wide range of wireless communication technologies such as Wi-Fi 802.11b/g/n and Bluetooth 4.0 that allow mobile service providers to stay seamlessly connected. With regard to data capturing functions, the IOVU-12/15/17 supports 10/100/1000 Base-T Ethernet, four digital input, four digital output, one RS-232/485 and one CAN bus, making the IOVU-12/15/17 Android turn-key ready system a perfect HMI solution for industrial field.

- 12/15/17" LED backlight active-matrix TFT
- Projected capacitive touchscreen
- Freescale™ i.MX6 Cortex™-A9 quad-core (1.0GHz) CPU

- Android 4.2 OS
- One 10/100/1000Mbps Power over Ethernet IEEE 802.3at
- CAN 2.0b, 4 x DIO (configurable by software)

i.MX 6 QuadPlus	i.MX 6 Quad
Ultimate Performance • Highly optimized 2D/3D graphics • Enhanced DRAM controller	High Performance • High-end 2D and 3D graphics • Dual stream HD video
i.MX 6 DualPlus	i.MX 6 Dual
Extreme 3D Graphics • Highly optimized 2D/3D graphics • Enhanced DRAM controller	Advanced 3D Graphics • High-end 2D and 3D graphics • Dual stream HD video
i.MX 6 DualLite	i.MX 6 Solo
3D Graphics • Advanced 2D and 3D graphics • HD video	Multimedia • 2D and 3D graphics • HD video
i.MX 6 SoloX	i.MX 6 SoloLite
Secure Processing • With Cortex™-M4 core • 2D and 3D graphics	Multimedia/eReader • 2D graphics • Low power
i.MX 6 UltraLite	i.MX 7 Solo
Efficient and Secure • Cortex™-A7 core • Enhanced security	Ultimate Power Efficiency • Cortex™-A7 with Cortex™-M4 • MIPI CSI/DSI
i.MX 7 Dual	
Efficient Performance • Dual Cortex™-A7 with Cortex™-M4 • EPD panel controller	

■ Cortex™-A9 MPCore



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■ Wide Temperature

The IOVU-12/15/17 series supports wide range temperature from -20°C to 60°C and is equipped with IP 65 compliant front panel for harsh environments.

■ Wire or Wireless Connection

The IOVU-12/15/17 series supports 802.11b/g/n and Bluetooth for connecting to various devices, allowing the IOVU to be deployed into diverse applications for smart building or smart factory. In addition, the IOVU series has a Power over Ethernet (PoE, IEEE802.3at) port for providing power and passing data to the system through a single Ethernet cable.

■ External I/O Connectors

The IOVU-12/15/17 series has a 10-pin I/O connector on the bottom panel for connecting external peripheral devices:

- 1 x CAN 2.0
- 4 x GPIO

Pin	1	2	3	4	5
Description	GND	ESD_GPIO1	ESD_GPIO2	GND	ESD_GPIO3
Pin	6	7	8	9	10
Description	ESD_GPIO4	GND	CAN_L	CAN_H	GND

■ DC Input and Terminal Block

The IOVU-12/15/17 equips with two types of 12V ~ 36V DC power input connectors. The locations of the power connectors are shown in the right diagram.

The pinouts of the power terminal block are listed in the following table.

Pin	1	2
Description	DC-IN (12V~36V)	GND



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WIN CE eszközök nem rendelhetők



LCD Size		4.3"	5.7"	7"	7"
Model Name		IOVU-430S	IOVU-572M	IOVU-752S	IOVU-07F-AD
Display	LCD Color	262 K	262 K	262 K	WSVGA
	Display Resolution	WQVGA	VGA	WVGA	1024(w) X 600(H)
	LCD Brightness (cd/m²)	500	400	500	500 nits
	Dot Pitch (mm)	0.066(H) x 0.198(V)	0.06(H) x 0.18(V)	0.1905(H) x 0.1905(V)	0.05(W) x 0.15(H)
	Viewing Angle (H-V)	140° / 120°	140° / 100°	140° / 130°	150° / 145°
	Backlight MTBF	20000	50000	50000	20000
	Touch Screen	ResistiveType	Resistive Type	Resistive Type	Capacitive Type
	Multimedia Support	MPEG-1/2/4/H.263	MPEG 1	MPEG-4/H.263/H.264	MPEG-2/4, H.263, H.264
System	CPU	Samsung S3C2416 400 MHz	XScale® PXA310 624 MHz	Samsung S3C6410 ARM11 677 MHz	Freescale™ i.MX6 Cortex™-A9 quad core 1.0 GHz
	Operating System	Win CE 6.0	Win CE 6.0	Win CE 6.0	Android 4.2.2
	Bootloader Storage	128MB	128 MB	128 MB	4G eMMC Nand Flash
	RAM	128 MB SDRAM	256 MB DDR2	256 MB DDR2	1GB DDR3 SDRAM on board
	Program Storage Area	Bootloader Storage			
I/O and Communication	I/O Interface	1 x RS-232/422/485 COM port (software configurable) 1 x Reset button 1 x 10/100Mbps LAN 1 x USB 1.1 host 1 x CAN-bus 2.0b 6 x GPIO (voltage range 2.97V~3.63V) 1 x 2-pin terminal block DC input 1 x miniSD card slot	1 x RS-232/422/485 (software configurable) 2 x 10/100Mbps LAN 2 x USB 1.1 host 1 x SD card slot 1 x Reset button 1 x AT mode power switch 1 x 2-pin terminal block DC input	1 x RS-232 COM port (software configurable) 1 x 10/100Mbps LAN (supports PoE) 2 x USB 2.0 host 1 x Reset button 1 x On/Off power switch 1 x Power jack	1 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 Host 1 x RS-232/422/485 support software controllable(DB9) 1 x RS232 Full-Function(DB9) 1 x SD Slot (up to 32GB) 1 x CAN 2.0 4 x DIO 1 x Mic 1 x 2MP front Camera
	Audio	2 x 1W speaker	2 x 1.5W speaker	2 x 1.5W speaker	1 x 1.5W Speaker
	Wireless LAN	802.11a/b/g/n	802.11a/b/g/n	N/A	1 x BT+WiFi Controller for 802.11b/g/n
Dimensions	Construction Material	ABS + PC Plastic	ABS + PC Plastic	Aluminum (Al 6061)	Front panel: ABS+PC Plastic ; Back cover: Metal
	Net Weight (kg)	0.6	0.7	1.2	
	Front Panel Color	Black	Black	Silver	Black
	Dimensions (W x H x D mm)	145 x 104 x 34	180 x 135 x 46	188 x 124 x 40	210(W) x 154(H) x 40.1(D) mm
Environmental and Power	Operating Temperature (°C)	0°C~50°C	-10°C~ 60°C	-10°C~ 60°C	0~50°C
	Front Panel Protection	IP65 compliant	IP64 compliant	IP64 compliant	IP54 compliant
	Power Mode	AT	AT	AT	
	Power Requirement	12~36V DC input	12~36V DC input	9-30V DC input	9~30V DC input
	Power Consumption	7 W	14 W	14 W	12V , 1.55A
	Vibration and Shock	1. Axes: 3 axes (Vertical / Transverse / Longitudinal) 2. 10 ~ 500Hz, 60min/axis 3. Equivalent to Z: 2.18Grms, X: 1.6Grms, Y: 1.96Grms			
	Humidity	5%-90% RH	5%-90% RH	5%-90% RH	5% ~ 90%RH (no-condensing)

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- 2 Automation Panel Solutions
- 3 Healthcare Panel PC Solution
- 4 Industrial System
- 5 ORing Network Communication
- 6 Automation Control
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RISC Based Panel PC Selection Guide

megjelenés: 2018Q3



LCD Size		10"		12"	15"	17"
Model Name		IOVU-10F-AD	IOBA-10F-AD	IOVU-12F-AD	IOVU-15F-AD	IOVU-17F-AD
Display	LCD Color	16.2M	262k	16.2M	16.2M	16.7M
	Display Resolution	1280(W) x 800(H)	1280(W) x 800(H)	1024(W) x 768(H)	1024(W) x 768(H)	1280(W) x 1024(H)
	LCD Brightness (cd/m²)	400 nits	300 nits	600 nits	400 nits	350 nits
	Dot Pitch (mm)	0.1695 x 0.1695	0.1695 x 0.1695	0.24 x 0.24	0.297x 0.297	0.264 x 0.264
	Viewing Angle (H-V)	85/85/85/85 Deg.	85/85/85/85 Deg.	160° / 140°	160° / 140°	170° / 160°
	Backlight MTBF	30000	20000	50000	50000	50000
	Touch Screen	Project Capacitive	Project Capacitive	Projected capacitive flat touch	Projected capacitive flat touch	Projected capacitive flat touch
	Multimedia Support	MPEG-2/4, H.263, H.264				
System	CPU	Freescall i.MX6 Cortex A9 Quad-Core 1.0GHz	Freescall i.MX6 Cortex A9 Quad-Core 1.0GHz	Freescall™ i.MX6 Cortex™-A9 quad core 1.0 GHz	Freescall™ i.MX6 Cortex™-A9 quad core 1.0 GHz	Freescall™ i.MX6 Cortex™-A9 quad core 1.0 GHz
	Operating System	Android 4.2.2	Android 5.1	Android 4.2.2	Android 4.2.2	Android 4.2.2
	Bootloader Storage	4G eMMC Nand Flash	8G eMMC Nand Flash	8G eMMC Nand Flash	8G eMMC Nand Flash	8G eMMC Nand Flash
	RAM	1GB DDR3 SDRAM	2GB DDR3 SDRAM	2GB DDR3 SDRAM	2GB DDR3 SDRAM	2GB DDR3 SDRAM
	Program Storage Area	Bootloader Storage				
I/O and Communication	I/O Interface	1 x 10/100/1000 Mbps Ethernet w/ POE (WAN) 2 x USB 2.0 1 x RS-232/422/485 support software controllable(DB9) 1 x RS-232 Full-Function (DB9) 1 x 13.56MHz 1 x DC jack 1 x On/Off power switch 1 x Reset button 1 x SD slot (Hidden)	1 x 10/100/1000 Mbps Ethernet w/ POE (WAN) 1 x 10/100/1000 Mbps Ethernet w/o POE (LAN) 2 x USB 2.0 1 x RS-232/422/485 support software controllable(DB9) 1 x RS-232 Full-Function (DB9) 1 x 13.56MHz 6 x Sensor connectors 8 x DIO 1 x DC jack 1 x Reset button 1 x SD slot (Hidden)	1 x 10/100/1000 Mbps Power over Ethernet 2 x USB 2.0 host 1 x RS-232 full function (DB-9) 1 x RS-232/422/485 by DB-9 (software controllable) 1 x 12V~36V DC terminal block 1 x SD slot (up to 32GB) (Hidden) 1 x CAN 2.0 4 x GPIO 1 x DC jack 1 x On/Off power switch 1 x Reset button	1 x 10/100/1000 Mbps Power over Ethernet 2 x USB 2.0 host 1 x RS-232 full function (DB-9) 1 x RS-232/422/485 by DB-9 (software controllable) 1 x 12V~36V DC terminal block 1 x SD slot (up to 32GB) (Hidden) 1 x CAN 2.0 4 x GPIO 1 x DC jack 1 x On/Off power switch 1 x Reset button	1 x 10/100/1000 Mbps Power over Ethernet 2 x USB 2.0 host 1 x RS-232 full function (DB-9) 1 x RS-232/422/485 by DB-9 (software controllable) 1 x 12V~36V DC terminal block 1 x SD slot (up to 32GB) (Hidden) 1 x CAN 2.0 4 x GPIO 1 x DC jack 1 x On/Off power switch 1 x Reset button
	Audio	1 x 2W Speaker	1 x 2W Speaker	2 x 3W Speaker	2 x 3W Speaker	2 x 3W Speaker
	Wireless LAN	BT4.0 + Wi-Fi Controller for 802.11b/g/n	BT4.0 + Wi-Fi Controller for 802.11 a/b/g/n	BT4.0+WiFi Controller for 802.11 b/g/n	BT4.0+WiFi Controller for 802.11 b/g/n	BT4.0+WiFi Controller for 802.11 b/g/n
	Dimensions	Construction Material: Plastic front cover and metal rear cover Front Panel Color: White Dimensions (W x H x D mm): 293 x 209.5 x 44.49	Construction Material: Plastic front cover and rear cover Front Panel Color: White Dimensions (W x H x D mm): 282.5 x 174.3 x 14.7	Construction Material: Aluminum front cover and sheet metal rear cover Front Panel Color: Black Dimensions (W x H x D mm): 322.2 x 262.2 x 45.5	Construction Material: Aluminum front cover and sheet metal rear cover Front Panel Color: Black Dimensions (W x H x D mm): 378.5 x 303 x 48.2	Construction Material: Aluminum front cover and sheet metal rear cover Front Panel Color: Black Dimensions (W x H x D mm): 408.4 x 341.4 x 54.3
Environmental and Power	Operating Temperature (°C)	0°C ~ 40°C	0°C ~ 50°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C
	Front Panel Protection	IP54 compliant	IP64 compliant	IP65 compliant	IP65 compliant	IP65 compliant
	Power Requirement	9~30V	9~30V	12~36V DC	12~36V DC	12~36V DC
	Power Consumption	N/A	N/A	36V @ 0.8A	36V @ 0.72A	36V @ 0.86A
	Vibration and Shock	1. Operating Random Vibration Mode A. Axis: 3 axes (Vertical / Transverse / Longitudinal). B. 10-500 Hz, 60min/axis. C. Equivalent to Z:1.04 Grms X:0.204 Grms Y:0.74 Grms 2. Non Operating Random Mode A. Axis: 3 axes (Vertical / Transverse / Longitudinal). B. 20-1000 Hz, 60min/axis C. 0.04g2/Hz				
	Humidity	5% ~ 90%RH (no-condensing)				

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