

AECX-IMX6 (WECX-IMX60)

Freescale i.MX 6 series Cortex®-A9 RISC 3.5" Embedded Board with TTL/LVDS/HDMI, 2 COM, 3 USB 2.0 host, 1 USB 2.0 OTG.



Key Features

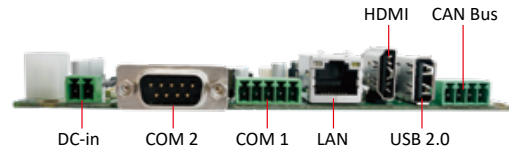
- Freescale i.MX 6 Cortex®-A9 Dual Lite 1.0GHz
- Onboard DDR3 1GB Memory
- Supports TTL/LVDS, HDMI output
- Supports Gigabit LAN
- 1 Mini-PCIe, 2 micro SD and 1 SIM Card expansion slots
- 2 COM, 3 USB 2.0 Host and 1 USB 2.0 OTG
- 4/5-wire Touch Screen Interface
- DC-in 12V or DC-in 24V (optional)

Product Specification

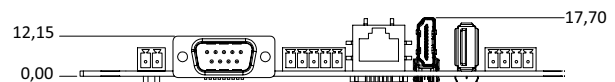
System Processor/Chipset	
Processor	Freescale i.MX 6 Cortex®-A9 Dual Lite 1.0GHz Freescale i.MX 6 Cortex®-A9 Quad / Dual 1.2GHz (Optional)
System Memory	1GB DDR3 onboard
PMIC	Freescale MMPF0100FOAEP
UART	Console
Display	
Graphics	Freescale i.MX 6 Integrated
Display interface	HDMI, TTL (18-bit), LVDS (Dual Channel 18/24-bit)
Touch Screen	
Interface	Resistive 4-wire or 5-wire
Controller	Microchip AR1021
Ethernet	
Interface	10/100/1000 Mbps
Controller	Atheros AR8033
Connector	1 x RJ45
Audio	
Interface	Line-in, Line-out, Mic-in
CODEC	Freescale SGT5000
Expansion Slot	
Mini-PCIe	1 x Full size
micro SD	2
SIM card	1
SATA	
Max. data transfer rate	3.0Gb/s
Port	1 x SATA II (Optional for i.MX 6 Quad / Dual)
I/O	
Audio	Line-out, Mic-in (Onboard box-header)
USB	3 x USB 2.0 Host (1 x Rear I/O, 2 x Onboard box-header) 1 x USB 2.0 OTG (Onboard box-header)
COM	1 x RS-232 (Rear I/O), 1 x RS-422/485 (Rear I/O)
HDMI/VGA/DVI/DP	1 x HDMI (Rear I/O)
CAN Bus	1 (Rear I/O)
GPIO	25-bit
SPI	Integrated SPI 1Mb
I ² C	1
Power Requirement	
Power connector	1 x 2-pin phoenix connector 1 x ATX (+12V 2x2-pin)
Power type	DC-in 12V or 24V (Optional)
Watchdog Timer	
Function	Watchdog timer build-in

Environment	
Operating temperature	0°C ~ 60°C (32°F ~ 140°F) standard -20°C ~ 70°C (-4°F ~ 158°F) optional -40°C ~ 70°C (-40°F ~ 158°F) optional
Storage temperature	-40°C ~ 70°C (-40°F ~ 158°F)
Relative humidity	0% ~ 95% (non-condensing)
Form Factor	
Dimensions (L x W)	3.5" Embedded Board 146mm x 102mm (5.75" x 4.01")

Rear I/O



Dimensions



Ordering Information

Part Number	Description
AECX-IMX6-DL0 (MOQ)	Freescale i.MX6 Cortex-A9 Dual Lite, HDMI/TTL/LVDS, 2COM/4USB/LAN, DC (12V)
AECX-IMX6-QU0 (MOQ)	Freescale i.MX6 Cortex-A9 Quad, HDMI/TTL/LVDS, 2COM/4USB/LAN, DC (12V)
AECX-IMX6-DL0 (MOQ)	Freescale i.MX6 Cortex-A9 Dual, HDMI/TTL/LVDS, 2COM/4USB/LAN, DC (12V)

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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