

# FA30

## NXP i.MX6 Dual Core Industrial ARM SBC



### KEY FEATURES

- 3.5" Form Factor (146mm x 101mm, industrial arm sbc)
- NXP i.MX6 Dual Core 1GHz
- Upgradeable to Quad Core or 2GB RAM (Optional)
- Android 6.0 , Linux 4.1.15 QT 5.5 (Optional), Ubuntu 16.04 (Optional)
- 1 x micro SD/SDHC Card Slot
- Built-in 16GB eMMC
- Power Over Ethernet (PoE) Support (Optional)
- 1 x Micro-HDMI Output



### SPECIFICATIONS

System Specification			
<b>Processor</b>	NXP i.MX6 Dual Core, 1.0GHz	<b>Memory</b>	1GB 2GB (Optional)
<b>Storage</b>	eMMC: Onboard 16 GB eMMC: Onboard 32 GB (Optional)	<b>Operating System</b>	Linux Ubuntu 18.04 (Optional) Android 6.0 (Optional) Debian 7.0 (Optional) Linux 4.1.15 QT 5.5 (Optional)
IO Ports			
<b>Power Input</b>	1 x 12V DC, 2-Pin Terminal Block	<b>USB Port</b>	1 x Console Port (Mini USB) 1 x USB OTG (Micro USB) 1 x USB2.0 (Type-A)
<b>Serial Port</b>	1 x RS232/422/485 (Default RS232)	<b>SD Card Slot</b>	1 x Micro SD card slot
<b>Video</b>	1 x Micro HDMI (Optional)	<b>LAN</b>	1 x LAN RJ45 Connector with PoE(PD, 802.3 at)
<b>CANBUS</b>	1 x CANBUS, D-sub9		
Internal IO Ports			
<b>Power output</b>	1 x 2pin(1x2) blue wafer for 3.3V DC out 1 x 2pin(1x2) red wafer for 5V DC out 1 x 2pin(1x2) yellow wafer for 12V DC out	<b>USB</b>	5 x 4pin(1x4) for USB 2.0
<b>UART</b>	2 x 8pin(1x8) for UART 1 x 6pin(1x6) for debug	<b>Display</b>	1 x 40pin DF13 connector for LVDS
<b>Backlight</b>	1 x 7pin(1x7) for panel backlight 1 x 2pin(1x2) for backlight	<b>DIDO</b>	1 x 10pin(2x5) for Digital input/output
<b>VR</b>	1 x 3pin(1x3) for Backlight control VR	<b>Speaker</b>	2 x 2pin(1x2) for Speaker
<b>Backup battery</b>	1 x 2pin(1x2) for RTC battery	<b>Audio</b>	1 x 2pin(1x2) for Microphone
<b>Reset</b>	1 x 4pin(1x4) for Reset	<b>CAN2</b>	1 x 4pin(1x4) for CAN2
<b>I2C</b>	1 x 12pin FPC connector for NFC 1 x 10pin FPC connector for Touch		
Certification			
<b>Certification</b>	CE, FCC		
Mechanical			
<b>Dimension</b>	146 x 102 mm		
Environment			
<b>Operating Humidity</b>	30% to 90% RH, Non-Condensing	<b>Operating</b>	-20°C to 60°C

## Temperature

**Storage Temperature** -25°C to 65°C

## Power

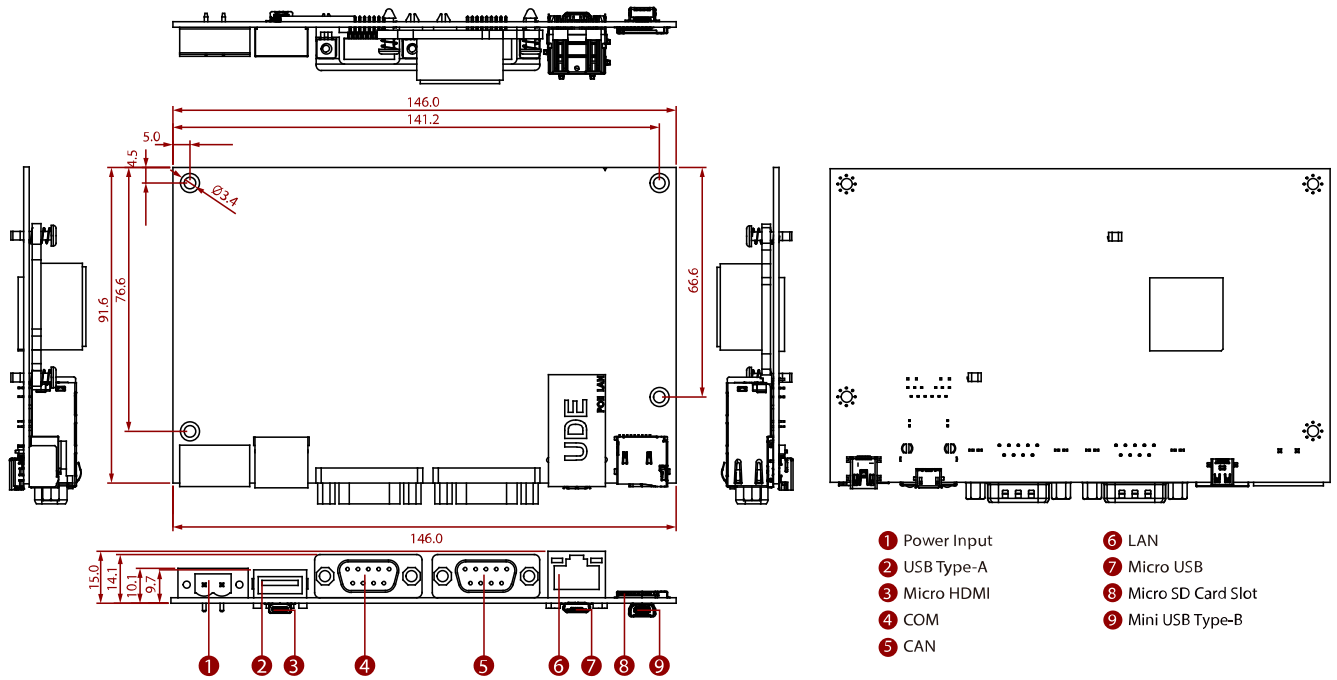
**Power Rating** 12V DC

**Adapter**

12V 50W

**POE** PoE (PD): follows IEEE 802.3at (25 W)

## DIMENSIONS UNIT:MM



## NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.