## **ASUS IoT Middleware**



#### **DATASHEET**

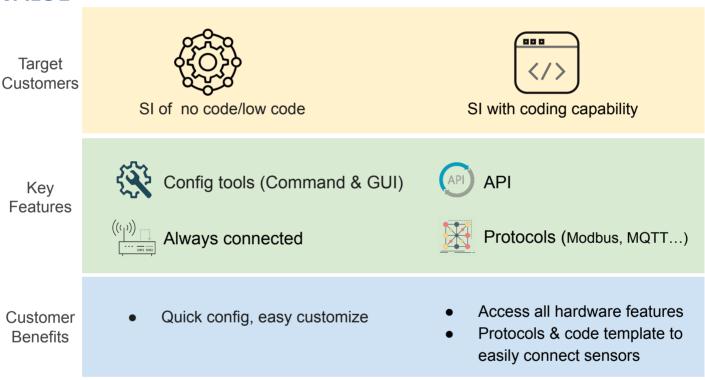
Provide set of tools (Configuration tools, API, protocols) to communicate and to manage ASUS IoT devices easily

#### What is ASUS IoT Middleware

ASUS has created IoT Middleware to simplify system customization and application development on ASUS IoT platforms.

The Middleware supports x86, ARM solutions, and can be used with Windows, Linux and Android.

#### **VALUE**



#### **KEY FEATURES**





- CPU voltage
- System temperature
- Watchdog
- **GPIO**
- Power schedule
- Smart Fan



Command line Config tool

- Board Info
- Watchdog
- I2C
- GPIO / DIO
- Hardware Monitor
- Smart Fan
- Power schedule
- Buzzer



API

- Fully access ASUS Hardware **EAPI** compliant
- Board Info, Watchdog, I2C, GPIO, DIO
- Hardware Monitor, Smart Fan, Power schedule, Buzzer
- USB port reset



**Protocols** 

- MOTT Modbus
- BACNET



**Always** Connect

- LTF auto-recover
- Wi-Fi / LTE auto-failover

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#### **DATASHEET**

Features	Functions <sup>(2)</sup>	x86		Tinker Board series		ARM IPC
		Windows	Linux	Linux	Android	Linux
System Monitor & Protect	Hardware monitor API	V	By request			
	Smart Fan API (3)	V	By request			
	Power schedule API (3)	V	By request			
	Watchdog API	V	By request	V <sup>(4)</sup>		V <sup>(6)</sup>
	Board Info API	V	By request	V		V
	Buzzer API	V	By request			
	USB port reset	V	By request			
Peripheral	G sensor/ RTC/ COM/ Wakeup					V <sup>(7)</sup>
	GPIO (DIO) API	V	By request	V <sup>(4)</sup>	V <sup>(4)</sup>	V
	I2C API	V	By request	V <sup>(4)</sup>	V <sup>(4)</sup>	
	SPIAPI				V <sup>(4)</sup>	
	UART API				V <sup>(4)</sup>	
	PWM API				V <sup>(4)</sup>	V <sup>(7)</sup>
Protocols & Connectivity	LTE auto recover			V <sup>(5)</sup>		V <sup>(6)</sup>
	Wi-Fi / LTE failover			V <sup>(5)</sup>		V <sup>(6)</sup>
	protocols (MQTT, Modbus, REST)				х	V

### **SUPPORTED MODELS**

Category	x86	Tinker Board series	ARM-based IPC
Models	Please contact our sales	Tinkerboard 2 / 2S Tinker Edge R	PE100A PV100A