



World-first with patent of fan-less design and cross-platform gateway solutions for the Internet of Things (IoT). It provides with flexible choice of every wire or wireless communication interface. Its structure creates more selectivity, expandability, connectivity and convenience to the IoT application, which can help develop IoT system rapidly.

FEATURES

- Intel® Valleyview-I SoC based platform
- Multi-wireless or wire module swappable design for connections such as 4 port Ethernet, 1 port Ethernet, RS-232, RS-422, RS-485, 2G, 3G, Wi-Fi and 1 port USB 3.0 (Optional)
- One Pan Network socket supporting connections such as ZigBee, LoRa or BLE connectivity (Optional)
- Fan-less design

ORDERING GUIDE

- **XM-1-6060-E3845**
Intel® ATOM™ E3845 1.91GHz Quad Core
- **XM-1-6060-E3815**
Intel® ATOM™ E3815 1.46GHz Single Core
- **XM-1-6060-E3827**
Intel® ATOM™ E3827 1.75GHz Dual Core
- **XM-1-6050-5010U**
Intel® Core™ i3-5010U 2.1GHz Dual Core
- **XM-1-6050-5350U**
Intel® Core™ i5-5350U 1.8GHz Dual Core
- **XM-1-6061-N3710**
Intel® Pentium® Quad Core 1.6GHz
- **XM-1-6061-N3160**
Intel® Celeron® Quad Core 1.6GHz
- **XM-1-6061-N3060**
Intel® Celeron® Dual Core 1.6GHz

GENERAL

CPU	- Intel® Atom™ E3800 family processor - Intel® 5th Gen Core™ i5 and i3 processor - Intel® Pentium®/Celeron® Dual/Quad Core N3000 series
Memory	Support up to 8GB DDR3L 1066/1333
Storage Devices	1x Micro SD card socket (up to 32 GB)
BIOS	AMI BIOS
OS Support	Linux or Windows

EXTERNAL I/O

Ethernet	1x 10/100/1000 Ethernet
Others	- 1x DC Power JACK - 1x Reset/Power button - 2x LED

EXPANSION

USB	5x USB 3.0
-----	------------

Optional Connectivity

Supported Connectivity	Wi-Fi/ ZigBee/ Bluetooth/ BLE/ LoRa/ 2G/ 3G
Antenna	1x or 2x Antenna hole (only Wi-Fi)

Power Supply Unit

Power Input	DC 12V
Adaptor	AC 100-240V

Mechanical & Environment

Dimension	215 x 163 x 72mm
Weight	2260g
Operation Temperature	0°C ~ 60°C
Storage Temperature	-40°C ~ 85°C
Storage Humidity	10%~95% @40°C, non-condensing
Mounting	Desk, Vesa / DIN mounting

Wire/Wireless modules model list

2G



Chip	AcSip AE2502b
GSM Bands	850/900/1800/1900 MHz
Certification	CE / FCC pre-scan pass

1 port Ethernet



Ethernet Chip	ASIX AS88179
PHY	10/100/1000

4 port Ethernet



Ethernet Chip	ASIX AS88179
Switch IC	Broadcom BCM53115
PHY	10/100/1000

3G



Chip	Quectel UC20-G
Frequency Bands	GPS: 1575.42MHz GLONASS: 597.5 ~ 1605.8MHz UMTS: 800/850/900/1900/2100MHz GSM: 850/900/1800/1900MHz
Certification	CE / FCC / IC / GCF / PTCRB / Vodafone / RCM / Anatel / NBTC / AT&T / JATE / TELEC / KC / NCC / OFCA / SKT / Rogers / TA / NAL

Wi-Fi



Chip	Sparklan WUBR-508N(MU)
Standard	802.11 a/b/g/n 2T2R
Frequency	2.4GHz / 5GHz
Certification	FCC / CE / IC / Telec

LoRa



Product Name	Portwell XL-10
Frequency Range	902-928 MHz
Bandwidth	62.5 - 500KHz
Effective Bitrate	146 - 37500 bps

RS-232 / RS-422 / RS-485



Chip	FTDI FT232R
Baud Rate	300-1M Baud
Data Bit	4, 5, 6, 7, 8
Stop Bit	1, 1.5, 2
Flow Control	Xon / Xoff, RTS/ CTS, NONE

ZigBee



Product Name	XBee (PRO) S2C ZigBee
Transceiver Chipset	Silicon Labs EM357 SoC
Data Rate	RF 250 Kbps, Serial up to 1 Mbps
Indoor/urban Range	200 ft (60 m)
Certification	FCC / IC

BLE



Product Name	Tinysine Bluetooth Bee
Chip	TI CC2541
BT Version	Bluetooth Specification V4.0 & BLE
Working Frequency	2.4 ~ 2.48GHz unlicensed ISM band
Modulation	GFSK (Gaussian Frequency Shift Keying)
Transmission Distance	50 ~ 60m in free space