

WB-N211 Stingray Artificial Intelligence



Embedded System with NVIDIA® Jetson™ TX2

Introduction

WB-N211 STINGRAY is an industrial grade design and focus on high-speeding GPU calculation in AIoT. To fulfill AIoT applying, STINGRAY include one removable HDD/SSD storage tray can keep valuable data in edge. And consider data safety in storage and/or transferring, STINGRAT have own h/w crypto authentication chip to support software S/I add-on own valuable application to meet *GDPR certification.

*GDPR- General Data Protection Regulation

Features

- Industrial grade design
- Wide temperature operation
- One 2.5" removable tray for HDD/SSD
- 3.5mm line-out jack x 1 and MIC jack x 1
- Crypto Authentication

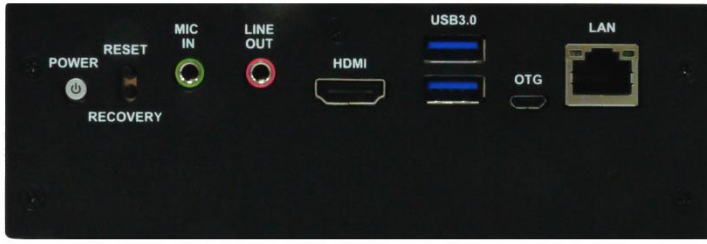
Datasheet v 1.0

Specification

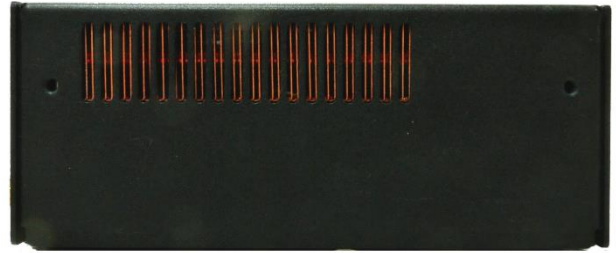
System	
Module	nVidia Tegra X2 module
CPU	HMP Dual Denver 2/2 MB L2 +, Quad ARM® A57/2 MB L2
GPU	NVIDIA Pascal™ 256 CUDA core GPU
DRAM	On Board 8GB LPDDR4
BSP Storage	On-Board 32GB eMMC (eMMC5.1) for BSP
I/O	
Network (LAN)	1x Gigabit Ethernet (10/100/1000), RJ45 w/ LED
Display	1x HDMI (Type A)
Audio	1x 3.5mm phone jack for line-out
	1x 3.5mm phone jack for MIC line in, audio plug detect
OTG	1x Micro USB
USB	2x USB 3.0 type-A (compatible to USB2.0)
WiFi/BT	802.11a/b/g/n/ac + BT4.0 (Option)
Storage	
Micro SD	1x Micro SD card slot for SDXC SD Card
SATA	1x tray for 2.5" Removable HDD/SSD 3Gbps
Button	
Power	1x Power button + power PIN-OUT
Reset	1x Reset button + reset PIN-OUT
Recovery	1x Recovery button + recovery PIN-OUT
Miscellaneous	
Power on	3 PIN Jump switch for system turn on by button or automatic
OS Support	
OS Support	Linux 4.4.38 / ubuntu 16.04
Power Consumption	
Input Voltage	DC12V +/-10%
Consumption	42 watt (max.) w/o daughter boards
Environment	
Operating Temperature	※-20 ~ 80 °C (system only not include storage)
Storage Temperature	-30 ~ 80 °C (-22 ~ 176 °F)
Relative Humidity	5 ~ 95% non-Condensing
EMC	CE, FCC Class B
Physical	
Dimensions	150mm x 123mm x 50mm
Characteristics	
Weight	1.1kg (w/o SSD/HDD)

※Customer using HDD/SSD storage please be sure the storage working temperature can meet requirement

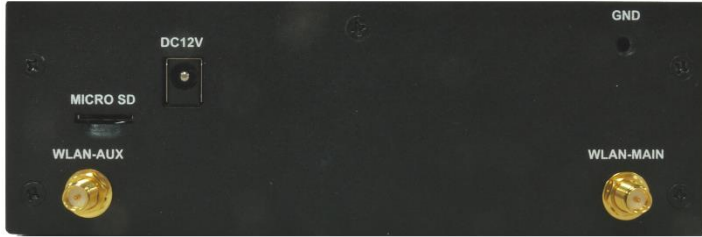
I/O View



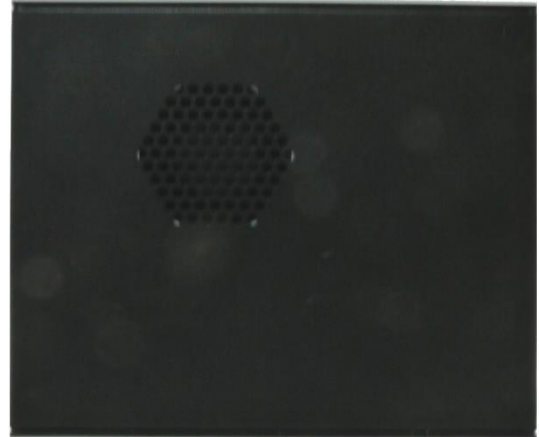
Front Side



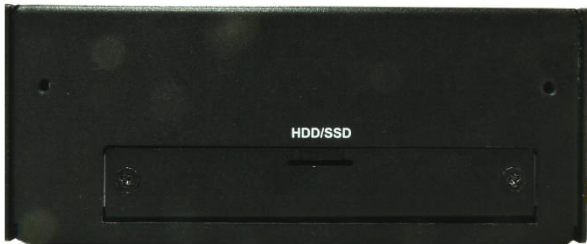
Left Side



Back Side



Top Side



Right Side

Ordering Information

Part Number	Description
SWBN211	WB-N211 stingray
SWBN211W	WB-N211_W stingray (WiFi/BT))
AWBN202ADP12	Adapter (FSP060-DHAN3) w/o power cord

※Stingray include nVidia TX2 module

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