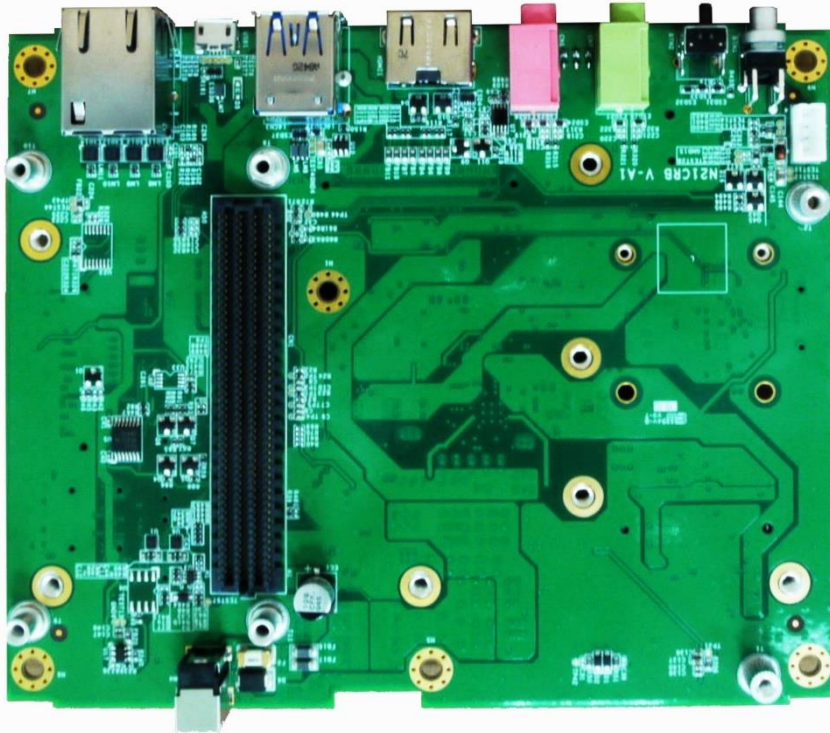


# WB-N211-B

## Artificial Intelligence



Embedded System with NVIDIA® Jetson™ TX2



### Introduction

WB-N211-B bare board is an industrial grade design and focus on high-speeding GPU calculation. Consider customers diversity apply, WB-N211-B not only have h/w crypto authentication feature to support software S/I add-on own valuable application to meet \*GDPR certification, but also include an expansion slot to allow customer creating own daughter board to extend new features easily and quickly.

\*GDPR- General Data Protection Regulation

### Features

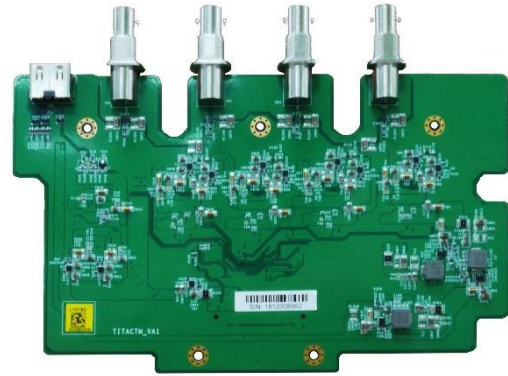
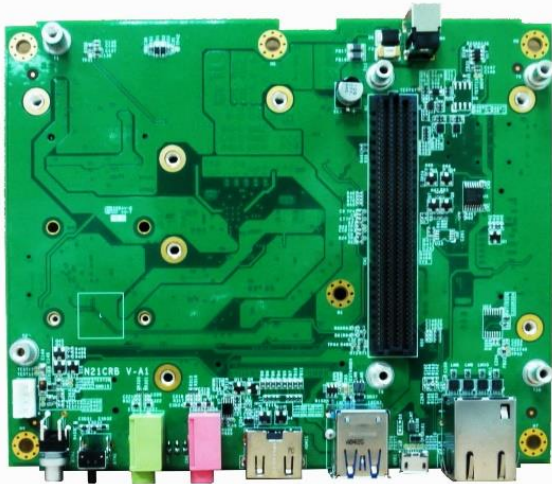
- Industrial grade design
- Expansion slot, easy to extend new features
- 3.5mm line-out jack x 1 and MIC jack x 1
- Crypto Authentication

Datasheet v 1.02

# Specification

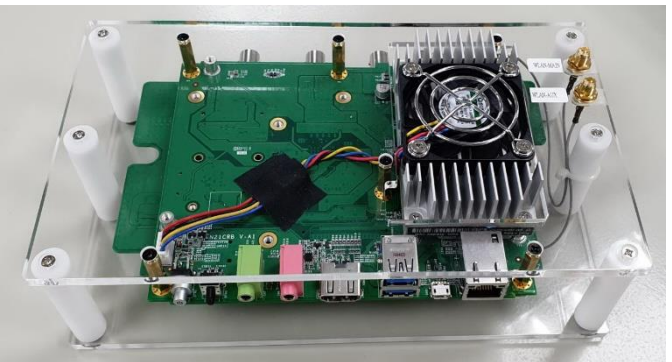
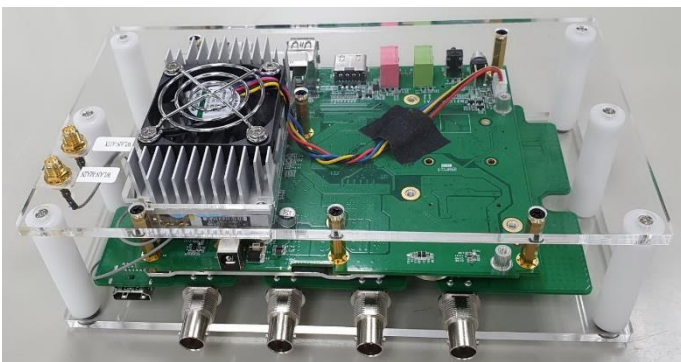
System	
Module	nVidia Tegra X2 module
CPU	HMP Dual Denver 2/2 MB L2 +, Quad ARM® A57/2 MB L2
GPU	NVIDIA Pascal™ 256 CUDA core GPU
DRAM	On Board 8GB LPDDR4
BSP Storage	On-Board 32GB eMMC (eMMC5.1) for BSP
I/O	
Network (LAN)	1x Gigabit Ethernet (10/100/1000), RJ45 w/ LED
Display	1x HDMI (Type A)
Audio	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 SATA support 3Gbps
Button	
Power	1x Power button + power PIN-OUT
Reset	1x Reset button + reset PIN-OUT
Recovery	1x Recovery button + recovery PIN-OUT
PIN OUT	
Power on	On board dip switch for system turn on by button or automatic
Expansion	1x 120pin connector (primarily for camera module design)
	1x 100 pin connector
PCIe 2.0 (5.0 GT/s)	1x lane *2 (reserved on 100pin expansion connector)
MIPI CSI 2.0 (2.5Gbps per lane)	Total 12 lanes, could be configured as 2x lanes *6 or 4x lanes *3 (reserved on 120pin expansion connector)
mPCIe	Primarily for WWAN module (w/ USB2.0/USIM card interface)
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
Dimension	
Dimension	120mm x 146mm

## WB-N211 & Analog/HDMI IN Daughter Board View



4 x BNC for TVI signal input	1080P(1920x1080)@30fps
	720P(1280x720)@60fps
1 x HDMI-IN	1920x1080@60fps
	1280x720@60fps
	720x576@60fps
	640x480@60fps

## WB-N211 Integrate Analog/HDMI IN Daughter Board



### Ordering Information

Part Number	Description
BWBN211TX2	WB-N211-B + nVidia TX2 module (8GB, 256 CUDA)
BWBN211TX2W	WB-N211-B/W (with WiFi/BT antenna) + nVidia TX2 module (8GB, 256 CUDA)
MWBN211THERFAN	Thermal sink with fan
AWBN202ADP12	Adapter (FSP060-DHAN3) w/o power cord
SWBN211TVI	Analog Daughter board (4x TVI IN + 1x HDMI IN) include : WB-N211-B/W + nVidia TX2 module + thermal sink with fan + adapter w/o power cord + BNC Daughter board + Acrylate housing

※Bare board include nVidia TX2 module

※Purchase BNC daughter board will automatic add WB-N211-B/W, thermal sink with fan together

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