

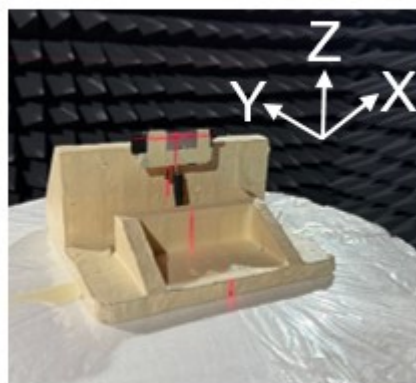
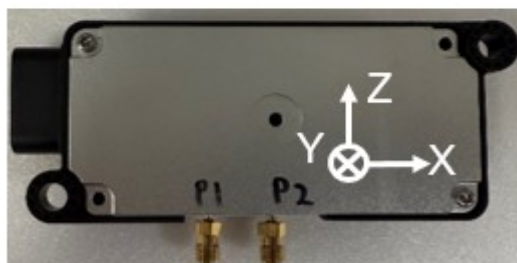
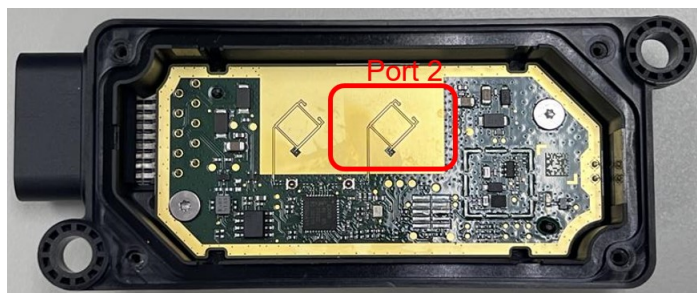
■ 文件新增 Addition of Document □ 文件變更 Alteration of Document □ 文件作廢 Revocation of Document

Subject: Product Requirements Doc (PRD) Doc No: [UCD-XP29D6WM](#) _Antenna report

REV: 1

PAGE 1 OF 2

Test setup photos:



■ 文件新增 Addition of Document □ 文件變更 Alteration of Document □ 文件作廢 Revocation of Document

Subject: Product Requirements Doc (PRD) Doc No: UCD-XP29D6WM _Antenna report

REV: 1

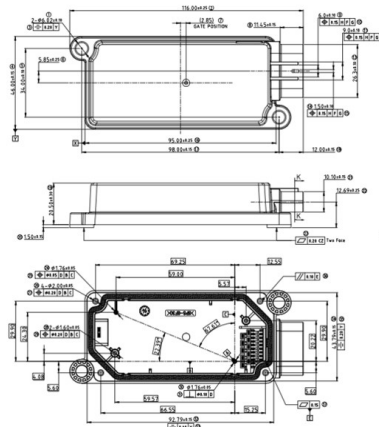
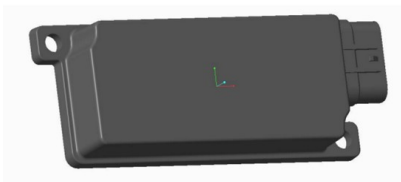
PAGE 2 OF 2

1.6 Full electrical and mechanical specifications

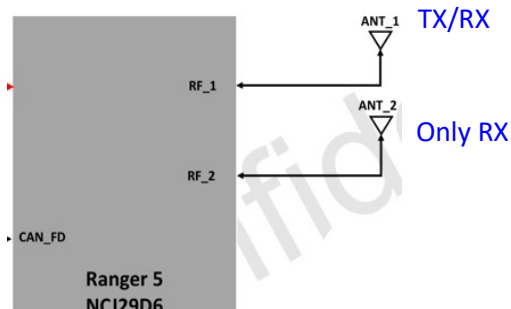
Key Features / Specifications

- Processor&BB subsystem:**
 - Chipset :NXP NCJ29D6B
 - ARM Cortex-M33 32bits W/ TrustZone
 - Build in FPU and DSP
 - Internal CAN FD Controller
 - IEEE 802.15.4/ IEEE 802.15.4z HRP UWB PHY compliant
 - Supports data rates of 110 kbit/s (HRP UWB), 850 kbit/s (HRP UWB), 6.8 Mbit/s (BPRF), 7.8 Mbit/s (HPRF)
 - Compliant with AEC-Q100 Grade 2
 - Compliance with FIRa in All-In-One MAC SW
- Memory: On Chip**
 - User flash 768 kB of total 1MB
 - User CPU RAM 125 kB of total 160kB
- Interface**
 - CAN-FD: compliant with the physical layer requirements of the ISO 11898-2:2016 high-speed CAN specification.
 - DC Power In
 - ID pin for different anchor location identification
- RF**
 - Supports super-high frequency (SHF) UWB bands CH 9 with center frequency 7987.2MHz
 - Two RF TRX pins
 - Supports 2-way ranging, AOA and TDOA
 - Programmable transmitter output power of up to 12 dBm instantaneous peak power
 - PSD <= -41.3dbm/MHz
- ANT:**
 - Internal antenna solution_CP ANT
 - ANT Type: PCB ANT, circularly polarized
 - Support Frequency :7737.2~8237.2MHz(UWB CH9)
 - Impedance:50ohm
 - FOV:>100°(Horizontal)&>70 °(Vertical) (TBD)
 - Peak Gain : >1dbi(TBD)
 - Return Loss : <=-6db(TBD)
- Power Supply**
 - Single power supply input
 - Operating voltage range: 9 V~16 V
 - Typical operating voltage: 13.5 V
- Product ID**
 - Form-Factor: 95mm*46mm*22mm
 - CMF:
 - Connector housing(Plastic)
 - Color: Black
 - Material: SPS+GF or Equivalent
 - Finish: Texture MT-11010
 - BTM Cover(Die-cast)
 - Color: Natural
 - Material: ADC-12
 - Finish: Chromate
- Mechanical**
 - Connector : Molex Mini 50 series
 - Pin Number: 10Pin
 - IP64
- Environment**
 - Normal Operating Temperature: -40 to 85°C
 - Storage Temperature: -40 to 85°C
- Certification**
 - FCC,CE,TELEC,IC(1st Priority)
 - NCC, ACMA/RCM(2nd Priority)

Product ID:
Form-Factor: 95mm*46mm*22mm



Configuration and RF Chains:



本資料為啓基科技股份有限公司專有之財產, 非經書面許可, 不准透露或使用本資料, 亦不准複印, 複製或轉變成其他形式使用

The Information contained herein is the exclusive property of WNC and shall not be distributed, reproduced, or disclosed in whole or in part without prior written permission of WNC.

Form No.: 2-JQ-021-04,008