

IT-Telecom

ASD-N2 (V2X OBU)

The Advantage of V2X (WAVE, ITS G5) Technology

ASD-N2 based on the state of the art technology, IEEE 802.11p, is used for the vehicle safety using wireless communication covering 3 to 27Mbps data rate. ASD-N2 OBU provides short latency communication. It can be easily and comfortably implemented for inside and outside car networking application with its advantages; efficient, robust and reliable networking.

V2V & V2I Wireless Communication

- Less than 100ms for Channel Access
- Security : IEEE 1609.2, HSM
- Input Voltage : 12V DC ~ 24V DC
- Operating temperature : -35°C ~ +85°C
- Modem : IEEE 802.11p applied
- MAC: IEEE 1609.3, 1609.4
- P2P & Multicast Communication
- Wireless Data Rate : 3~27Mbps
- Communication Coverage : $\leq 1\text{km}$ (LOS Condition)



Specifications

Wireless Interface

Standards :

IEEE 802.11p for PHY

IEEE 1609 for MAC, Modem

Security : IEEE 1609.2, HSM

Interface

Ethernet, USB, UART, CAN

RF Spec

Frequency : 5.850GHz ~ 5.925GHz, Dual Channel

TX Power : Max 20dBm

RX Sensitivity : -92dBm

Wireless Data rate : 3~27Mbps

Modulation : BPSK/QPSK/16QAM/64QAM OFDM

Communication Area : $\leq 1\text{km}$ (Line of Sight)

Physical Characteristics

Weight : $\leq 2\text{kg}$

Dimensions : 125x115x44 (mm)

Environmental Limits

Operating Temperature : -35°C ~ +85°C

Power Requirements

Input Voltage : 12V DC ~ 24V DC