commsignia

ITS-OB4

Powerful V2X Onboard Unit







Product brief

By combining the benefits of automotive grade design, high performance application CPU and dual channel V2X radio performance, the

- Improved connectivity (DSRC / ETSI-G5, C-V2X)
- Small from factor
- High precision positioning
- Intelligent power management
- Tamper proof and secure
- Rapid startup times
- Easy integration
- Audio and video notifications
- Reduced custom application development effort



Competitive features

- Dedicated next generation V2X chipsets
- Dual-channel operation
- Automotive grade design
- Extended radio coverage with a single unit
- Complete Real-Time V2X Stack (ETSI, IEEE, SAE, ISO)
- Available with Autotalks / Qualcomm 9150 V2X chipset
- Powerful application CPU
- Fine-tuned system startup process



Support and maintenance

- Linux Software Development Kit for application development
- Standard and Premium technical customer support
- User's & Developer's guides
- Available APIs: native C / remote C
- Sample applications Regular Software Upgrades



Easy integration

- CAN and other sensor inputs (CAN and GPIO connections)
- High frequency GNSS, high precision positioning
- Flexible Management Tool
- Statistics and Reports
- Video / Audio interface



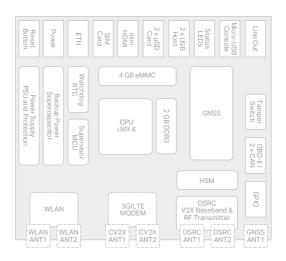
Complete security and supervision

- USDOT SCMS / EU PKI compatible
- Support for future security upgrade
- Tamper protected, supervised system
- Cryptographic Acceleration for V2X
- Tamper proof certificate storage (HSM)



V2X software

supporting several platforms - allowing applications to transmit and receive standard compliant V2X mes-



800 MHz Freescale/NXP i.MX 6
Linux (V2X)
2 GB DDR3 SDRAM
4 GB eMMc
Dual micro SD Card slot
10/100/1000 Mbps Ethernet
Dual USB 2.0, GPIO
Yes
10 s Store & Shutdown
Advanced GNSS
Dual band a/b/g/n

CONNECTORS	
ANTENNA	2 x DSRC, 2 x C-V2X, 1 x LTE(o), 1 x WiFi, 1 x GNSS
DATA	1 x ETH, 2 x USB, 1 x CAN, 1 x OBD-II
OTHER	Power connector Reset button 4 x Bicolor LEDs
VIDEO	HDMI 1.4a
LINE OUT	3.5 mm jack

DIMENSIONS

(W x H x D) 168 x 32.2 x 109 mm / 6.61 x 1.26 x 4.29 inches Weight: 560 g

AVAILABLE V2X RADIO VARIANTS

Autotalks Secton (802.11p DSRC) Qualcomm 9150 (3GPP r14 PC5 C-V2X)

USDOT SCMS / EU PKI support Hardware Security Module (HSM) ECDSA verification (> 2000 verifications).

ECDSA encryption (< 50 µs signing delay) NIST and Brainpool verification, encryption

Secure boot, encrypted storage, tamper proof system

EAL6+ certified and available with up to 1 MB of secure SOLID FLASH

ARM TrustZone including the TZ architecture

ENVIRONMENTAL

Operation humidity: 10% ~ 95%

Storage humidity: max 95%

Temperature range: -40 °C to +65 °C

Vibration proof

V2X integration

- Participating in deployment and OEM/Tier-1 trials
- Day1 / Day2 applications
- Sensor data integration

















