



## CyberCogs CC-SEL100 Ignition Gear Selector

### HARDWARE SPECIFICATIONS

- **Dimensions:** 95w x 67d x 61h (mm)
- **Power:** 6-36VDC
- **Communication Ports:**
  - 1 LIN Port or 1 CAN FD Port
- **RF communication:**
  - Near Field Communication (RFID) - 13.56 Mhz
  - Type 2, Type 4, Type 5 Tags
  - EMVCo 3.0 compliant
  - NFC-A ISO14443A
  - NFC-B ISO14443B
  - NFC-V ISO1563A
- **Data rate:** up to 848Kbps
- **Status indicators:**
  - LEDs for: Power/Key Present
    - Park
    - Reverse
    - Neutral
    - Drive
    - (For error codes)
- **LED Backlighting:** external Backlight control
- **Processor:** Cortex M0 running at 48Mhz
- **Memory:**
  - 17 Kbytes RAM
  - 128Kbytes of FLASH

### HARDWARE SPECIFICATIONS

- **Package:** Material ABC/ PC BLEND 20% GLASS FILL
- **Mounting:** Snap- fit to dashboard or console
- **Connector :** Molex, Mini50 Unsealed Vertical Header, Single Row, 4 Circuit, Polarization Option C, P/N 347928042
  - **Temperature range:** -40 to 95C

### NFC TAG HARDWARE SPECIFICATIONS

- **Dimensions:** 35w x 64d x 16h (mm) including RKE circuitry
- **RF Transceiver Frequencies:**
  - NFC Type 4 Tag 13.56 Mhz
  - NFC-A ISO14443A
- **Memory:**
  - 64 Byte EEPROM
  - Support NDEF structure
  - 7 byte unique identifier (UID)
  - 128bit password protection
- **Power:** Passive, powered by reader
- **Data rate:** up to 106Kbps
- **Temperature range:** -40 to 60C



## CyberCogs CC-SEL100 Ignition Gear Selector (continued)

### ACTIVE FOB HARDWARE SPECIFICATIONS

- **Power:** CR2032 Coin battery
- **Battery life:** 4+ years
- **RF receive Frequencies:**
  - 433Mhz (425Mhz to 480Mhz)
  - 315Mhz (287Mhz to 320Mhz)
- **RF receive Modulation:** ASK, OOK, FSK
- **Data rate:** up to 200Kbps
- **Processor:** Cortex M0 running at 48Mhz
- **Memory:**
  - 12 Kbytes RAM
  - 16Kbytes of FLASH
- **Package:** ABS plastic UL 94V0
- **Buttons :** 3 buttons (with option for more)
  - Lock
  - Unlock
  - Aux (Alarm, customizable)

### ADDITIONAL FEATURES

- ISO26262 , ASIL-C compliant
- FMVSS 102 compliant when combined with VCU
- Low Power mode with inductive/capacitive FOB detection
- Integrated (RFID)NFC antenna
- USA designed and manufactured
- Integrated Security
- Secure boot
- Secure internal key storage for signing, verification, and encryption in secure module subcomponent

### SOFTWARE FEATURES

- Adaptable Software with modular design for easy integration, performing all Gear selection functions
- ISS FlexHSM pre-ported through partnership with ISS
- ISS FlexUpdate pre-ported through partnership with ISS
- ISS DLM Trust for provisioning through partnership with ISS
- Secure communication available through DLM Trust (available through partnership with ISS)
- Software developed to Autosar coding guidelines



## CyberCogs CC-SEL100 Dimensional Drawings

