# X2 Booster datasheet

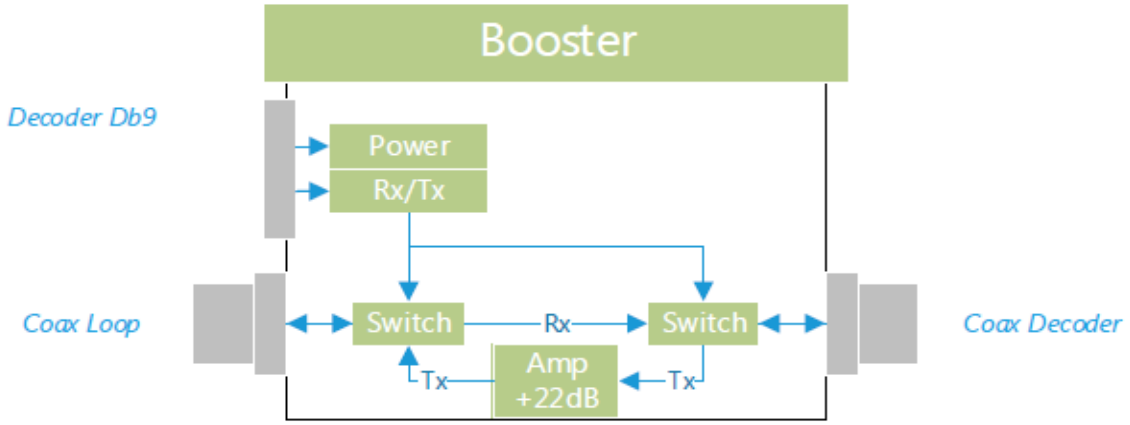
## Features

* In-line, 1-way, coax, X2 signal booster
* +22dB RSSI of Decoder hits (loop to vehicle hits)
* Powered from Decoder Auxiliary port
* LED indicating power connection


## Typical application

- Timing accuracy improvement on vehicles with high EMI
- Loop 2-way communications performance improvement to vehicles with high EMI

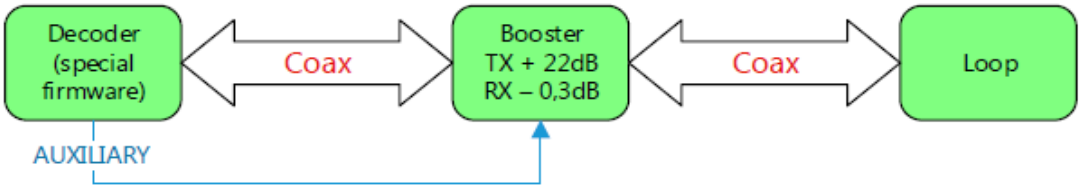
## Block Schematic




Note:

When Rx/TX signal from the decoder is lost, the Booster will switch to RX mode resulting in a normal (-0,3dB loss) route through off the X2 signals

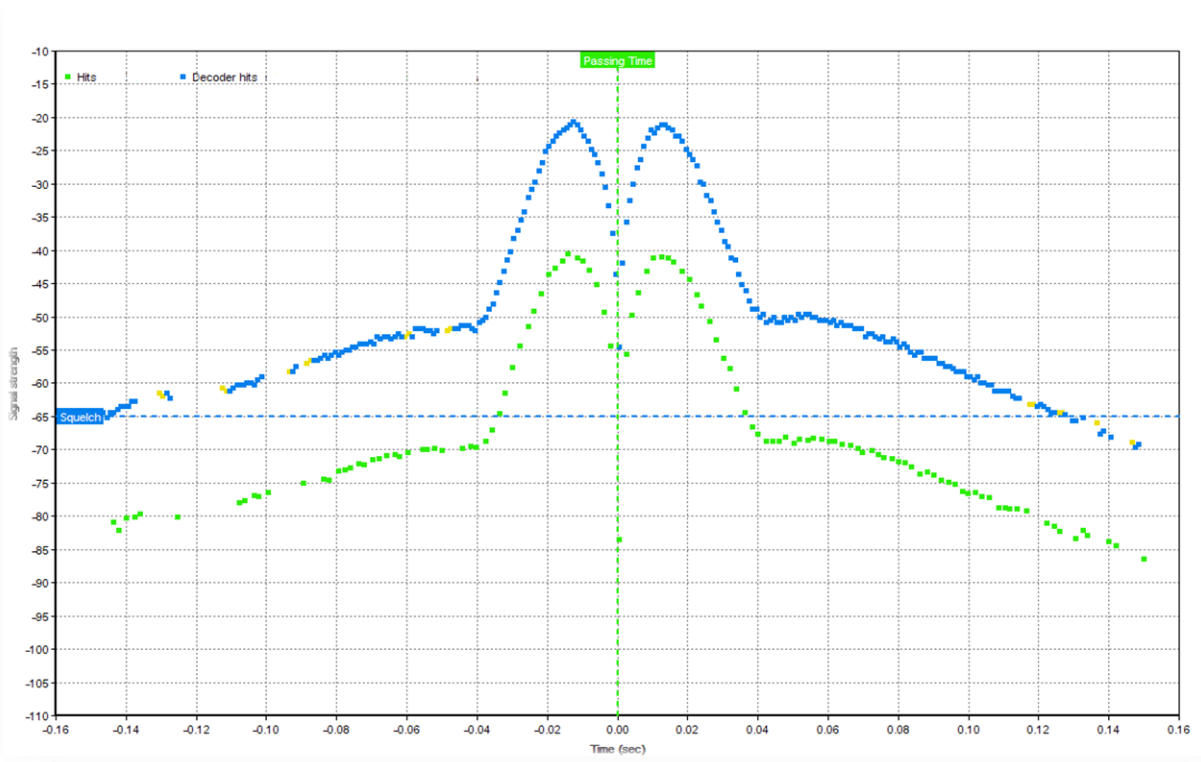
## Installation




## Specification

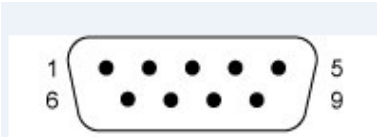
| | | |
|---|---|---|
| Decoder to Loop amplification | 22 | dB |
| Loop to Decoder amplification | -0,3 | dB |
| Current draw idle | 55 | mA@5V |
| Current draw with transponder above loop | 91 | mA@5V |
| Weight | 100 | g |
| Measurements | 90x65x29 | mm |

## Typical boosted loop passing



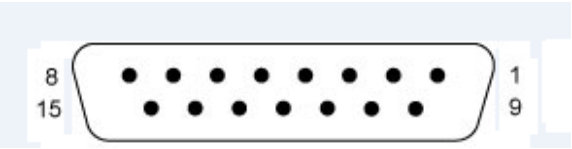
## Connector pin out

*Figure 1, 2wayAmp Db 9 pinout*




| Pin | Function |
|---|---|
| 1 | 5V in |
| 2 | GND |
| 3 | - |
| 4 | - |
| 5 | - |
| 6 | RxTx1 |
| 7 | RxTx2 |
| 8 | - |
| 9 | - |

*Figure 2, decoder Db 15 pinout*




| Pin | Function |
|---|---|
| 1 | GND |
| 2 | - |
| 3 | - |
| 4 | RxTx2 |
| 5 | GND |
| 6 | - |
| 7 | - |
| 8 | 5V |
| 9 | GND |
| 10 | - |
| 11 | - |
| 12 | - |
| 13 | - |
| 14 | RxTx1 |
| 15 | 5V |

**Notes**