
Interface EEPROM Configure

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Document Revisions

2017-05-03	Youhua Chen	Initial Version.
2017-05-04	Youhua Chen	1.1

Overview

This document describes the data flashed in the interface EEPROM.

EEPROM Map

The EEPROM used in the interface board has 4K-byte space, which is communicated with the I2C bus. The EEPROM is divided into two partitions:

- 0x0000 – 0x03FF, 1k-space is used for VR
- 0x0400 – 0x0FFF, 3k-space is used for BD

Table 1. Memory Map

Starting Address	Size (Bytes)	Description	Example of Data
0x0000	32	Manufacturer full name	Venture Research Inc.
0x0020	32	VR serial number	VRSN000012345
0x0040	32	VR assembly date	20-17-05-03
0x0060	32	VR device full name	SRA-16 Tower Antenna
0x0080	32	VR part number	VR102601
0x00A0	16	VR part revision number	01
0x00B0	32	BD part number	355467-01
0x00D0	16	BD revision number	03
0x00E0	2	Lot number	0x????
0x0300	128	Write/Read test area	
0x0400	1	Structure type	0x1D
0x0401	1	Structure version	0x01
0x0402	1	Hardware version major	0x04
0x0403	1	Hardware version minor	0x00
0x0404	2	Manufacturer ID	0x20 (= Venture Research)
0x0406	2	Assembly date in days since Jan 1, 2010	0x????
0x0408	2	Lot number	0x0001
0x040A	2	Device type	0xB004: tower antenna panel, 16-antennas 0xB005: antenna panel, 8-antennas

Multi-byte values are encoded as little endian.

Items marked in grey are reserved.

Example of data flashed:

```
root@vr-87f869:/home/user# bash vr-eeeprom-i2c.sh -a 0x400 -rh 12
return: 0x1d 0x01 0x01 0x00 0x20 0x00 0x77 0x0a 0x02 0x00 0x04 0xb0
```