



S3C4510B Notification

27 July 2000
(Ver1.0)



S3C4510B Bugs (Ver 1.0)

1) Ethernet BDMA Rx widget alignment.

When BDMA Rx widget alignment is two invalid byte, if the n'th frame met overflow (Buffer descriptor status says overflow), the (n+1)'th frame data have not adapted the BDMA Rx widget alignment though the status says good. (BDMARXCON[13:12] = 0x10). This error frame can be discarded. If BDMARXCON[13:12] is 0x0, this error status does not appear.

Belows are data area and buffer descriptor area.

Buffer Descriptor Area

```
5305004 : 8530b5e4 00000001 40000071 05305014 **2.
5305014 : 8530bbd4 00000001 0400000e 05305024 **1. --> overflow
5305024 : 8530c1c4 00000000 400000c1 05305034 **widget Error
```

Buffer Data Area

**WA Error

```
530c1c4 : 00887799 fff0088 7799fff 00c1a0a1
530c1d4 : a2a3a4a5 a6a7a8a9 aaabacad aeafb0b1
530c1e4 : b2b3b4b5 b6b7b8b9 babbcbcd bebf0c1
530c1f4 : c2c3c4c5 c6c7c8c9 cacbcccd cecfd0d1
530c204 : d2d3d4d5 d6d7d8d9 dadbdodd dedfe0e1
530c214 : e2e3e4e5 e6e7e8e9 eaebeced eeef0f1
530c224 : f2f3f4f5 f6f7f8f9 fafbfcfd feff0001
530c234 : 02030405 06070809 0a0b0c0d 0e0f1011
530c244 : 12131415 16171819 1a1b1c1d 1e1f2021
530c254 : 22232425 26272829 2a2b2c2d 2e2f3031
530c264 : 32333435 36373839 3a3b3c3d 3e3f4041
530c274 : 42434445 46474849 4a4b4c4d 4ee5c808 --> CRC
530c284 : b6e5c808 00000000 00000000 00000000
```

**1.

```
530bbd4 : 00000088 7799fff 00887799 fff0072
530bbe4 : a0a1a2a3 a4a5a6a7 a8a9aaab acadaeaf
530bbf4 : b0b1b2b3 b4b5b6b7 b8b9babb bcbdbebf
530bc04 : c0c1c2c3 c4c5c6c7 c8c9cacb cccdcecf
530bc14 : d0d1d2d3 d4d5d6d7 d8d9dad9 dcdddedf
530bc24 : 9a773f6f 00000000 00000000 00000000
530bc34 : 00000000 00000000 00000000 00000000
530bc44 : 00000000 00000000 00000000 00000000
```

**2.

```
530b5e4 : 00000088 7799fff 00887799 fff0071
530b5f4 : a0a1a2a3 a4a5a6a7 a8a9aaab acadaeaf
530b604 : b0b1b2b3 b4b5b6b7 b8b9babb bcbdbebf
530b614 : c0c1c2c3 c4c5c6c7 c8c9cacb cccdcecf
530b624 : d0d1d2d3 d4d5d6d7 d8d9dad9 dcdddedf
530b634 : e0e1e2e3 e4e5e6e7 e8e9eaeb ecedeeef
530b644 : f0f1f2f3 f4f5f6f7 f8f9fafb fcfdfec6
530b654 : 9207a6c6 00000000 00000000 00000000
```