

DM9161B Initial code

Application Note



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● Reason

To enhance DM9161B 10M TX waveform compliant with IEEE802.3 and 10M/100M RX performance in sensitivity.

● Countermeasure

When using DM9161B, we recommend adding as follows initial code in the driver.

```
//PHY_REG 27 (1Bh) <- 0000h  
phy_write(db, 27, 0x0000);  
//PHY_REG 27 (1Bh) <- AA00h  
phy_write(db, 27, 0xaa00);
```

```
//PHY_REG 27 (1Bh) <- 0017h  
phy_write(db, 27, 0x0017);  
//PHY_REG 27 (1Bh) <- AA17h  
phy_write(db, 27, 0xaa17);
```

```
//PHY_REG 27 (1Bh) <- 002Fh  
phy_write(db, 27, 0x002f);  
//PHY_REG 27 (1Bh) <- AA2Fh  
phy_write(db, 27, 0xaa2f);
```

```
//PHY_REG 27 (1Bh) <- 0037h  
phy_write(db, 27, 0x0037);  
//PHY_REG 27 (1Bh) <- AA37h  
phy_write(db, 27, 0xaa37);
```

```
//PHY_REG 27 (1Bh) <- 0040h  
phy_write(db, 27, 0x0040);  
//PHY_REG 27 (1Bh) <- AA40h  
phy_write(db, 27, 0xaa40);
```



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```
//PHY_REG 27 (1Bh) <- 0050h  
phy_write(db, 27, 0x0050);  
//PHY_REG 27 (1Bh) <- AA50h  
phy_write(db, 27, 0xaa50);
```

```
//PHY_REG 27 (1Bh) <- 006Bh  
phy_write(db, 27, 0x006b);  
//PHY_REG 27 (1Bh) <- AA6Bh  
phy_write(db, 27, 0xaa6b);
```

```
//PHY_REG 27 (1Bh) <- 007Dh  
phy_write(db, 27, 0x007d);  
//PHY_REG 27 (1Bh) <- AA7Dh  
phy_write(db, 27, 0xaa7d);
```

```
//PHY_REG 27 (1Bh) <- 008Dh  
phy_write(db, 27, 0x008d);  
//PHY_REG 27 (1Bh) <- AA8Dh  
phy_write(db, 27, 0xaa8d);
```

```
//PHY_REG 27 (1Bh) <- 009Ch  
phy_write(db, 27, 0x009c);  
//PHY_REG 27 (1Bh) <- AA9Ch  
phy_write(db, 27, 0xaa9c);
```

```
//PHY_REG 27 (1Bh) <- 00A3h  
phy_write(db, 27, 0x00a3);  
//PHY_REG 27 (1Bh) <- AAA3h  
phy_write(db, 27, 0xaaa3);
```

```
//PHY_REG 27 (1Bh) <- 00B1h  
phy_write(db, 27, 0x00b1);  
//PHY_REG 27 (1Bh) <- AAB1h  
phy_write(db, 27, 0xaab1);
```



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```
//PHY_REG 27 (1Bh) <- 00C0h  
phy_write(db, 27, 0x00c0);  
//PHY_REG 27 (1Bh) <- AAC0h  
phy_write(db, 27, 0xaac0);
```

```
//PHY_REG 27 (1Bh) <- 00D2h  
phy_write(db, 27, 0x00d2);  
//PHY_REG 27 (1Bh) <- AAD2h  
phy_write(db, 27, 0xaad2);
```

```
//PHY_REG 27 (1Bh) <- 00E0h  
phy_write(db, 27, 0x00e0);  
//PHY_REG 27 (1Bh) <- AAE0h  
phy_write(db, 27, 0xaae0);  
//PHY_REG 27 (1Bh) <- 0000h  
phy_write(db, 27, 0x0000);
```

```
//PHY_REG 27 (1Bh) <- E100h  
phy_write(db, 27, 0xE100);
```