SGMII Mode Instructions

To put sfp into SGMII mode and force 10Base-T:

Reg 27 0x90, 0x84   //CHANGE TO SGMII
Reg 00 0x81, 0x40   //APPLY SOFTWARE RESET
Reg 00 0x01, 0x00   //SELECT SPEED
Reg 00 0x81, 0x00   //APPLY SOFTWARE RESET

To put sfp into SGMII mode and force 100Base-T:

Reg 27 0x90, 0x84   //CHANGE to SGMII MODE
Reg 00 0x81, 0x40   //APPLY SOFTWARE RESET
Reg 00 0x21, 0x00   //SELECT SPEED
Reg 00 0xA1, 0x00   //APPLY SOFTWARE RESET

To put sfp into SGMII mode and force 1000Base-T:

Reg 27 0x90, 0x84   //CHANGE to SGMII MODE
Reg 00 0x81, 0x40   //APPLY SOFTWARE RESET
Reg 00 0x01, 0x40   //SELECT SPEED
Reg 00 0x81, 0x00   //APPLY SOFTWARE RESET

To put SFP into SGMII mode ad AutoNegotiate Speed on Cable side:

Reg 27 0x90, 0x84   //CHANGE to SGMII MODE
Reg 22 0x00, 0x01   //SELECT COPPER PAGE
Reg 00 0x91, 0x40   //ENABLE COPPER SIDE AN and APPLY
SOFTWARE RESET