| Register Write | S | TPS25750 Address | W | A | Register Address | A | Byte Count | A | Byte 0 | A | ... | Byte n | N |

Register Read		S	TPS25750 Address	W	A	CMD 1 Register (0x08)	A					
		S	TPS25750 Address	R	A	Bye Count	A	CMD Response Code	A	Byte 0	A ... Byte n	N

```
┌─────────────────────────┐
│                         │
│  Execute Go2P 4CC Command │
│                         │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│                         │
│  Exectue PBMs 4CC Command │
│                         │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│  Execute FOR Loop to write all │
│  Bytes of the EEPROM C-Array   │
│  to the I2C address specified in │
│  Byte 6 of the PBMs 4CC        │
│  command                       │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐            ┌─────────────────────────┐
│                         │   Error    │                         │
│  Exectue PBMc 4CC Command ├──────────►│  Exectue PBMe 4CC Command │
│                         │            │                         │
└─────────────────────────┘            └─────────────────────────┘
             │
   Patch Flow COmplete
             │
             ▼
```

HI I2C Write

I2C Address (0x21)
Data[0]: DATA1 Register(0x09)
Data[1]: BYTE CNT {0x06)
Data[2]: BundleSize[7:0]
Data[3]: BundleSize[15:8]
Data[4]: BundleSize[23:16]
Data[5]: BundleSize[31:24]
Data[6]:SlaveAddress
Data[7]: TimeoutValue {0x32}

HI I2C Write

I2C Address   (0x21)
Data[0]: CMD1 Register   (0x08)
Data[1]: BYTE CNT   (0x04)
Data[5:2]: CMD String   ('PBMs')

HI I2C Read

I2C Address   (0x21)
CMD1 Register   (0x08)
Return:
Byte[0]: BYTE CNT   (0x01)
Byte[1]: Return Code

'PBMs' ← Return Code → '!CMD' → Error State Command Rejected

'0000'

HI I2C Read

I2C Address   (0x21)
CMD1 Register   (0x09)
Return:
Byte[0]: BYTE CNT   (0x01)
Byte[1]: Return Code

Return Code → !=0 → Error State Invalid Bundle Size Invalid Slave Address Invalid Timeout Value

=0

PatchStart Success

```
┌──────┬─────────────────────────────────────────┐
│ HI   │ I2C Address (0x21)                       │
│ I2C  │ Data[0]: DATA1 Register(0x09)            │
│ Write│ Data[1]: BYTE CNT {0x00}                 │
│      │ Data[2]:{0x00}                           │
├──────┼─────────────────────────────────────────┤
│ HI   │ I2C Address              (0x21)          │
│ I2C  │ Data[0]: CMD1 Register   (0x08)          │
│ Write│ Data[1]: BYTE CNT        (0x04)          │
│      │ Data[5:2]: CMD String    ('PBMc')        │
├──────┼─────────────────────────────────────────┤
│ HI   │ I2C Address              (0x21)          │
│ I2C  │ CMD1 Register            (0x08)          │
│ Read │ Return:                                  │
│      │ Byte[0]: BYTE CNT        (0x01)          │
│      │ Byte[1]: Return Code                     │
└──────┴─────────────────────────────────────────┘
```

Return Code

- 'PBMc' (loop back)
- !CMD → Error State / Command Rejected
- '0000' ↓

```
┌──────┬─────────────────────────────────────────┐
│ HI   │ I2C Address                  (0x21)      │
│ I2C  │ CMD1 Register                (0x09)      │
│ Read │ Return:                                  │
│      │ Byte[0]: BYTE CNT            (0x28)      │
│      │ Byte[40:1]: Return Code  {See Table3-10} │
└──────┴─────────────────────────────────────────┘
```

Return Code

- !=0 → Error State / This function has a very complex error reporting. See Table -10 for full description
- =0 ↓

Patch Load Completed

```
┌──────┬─────────────────────────────────────────┐
│ HI   │ I2C Address (0x21)                       │
│ I2C  │ Data[0]: DATA1 Register(0x09)            │
│ Write│ Data[1]: BYTE CNT {0x00)                 │
│      │ Data[2]:{0x00}                           │
├──────┼─────────────────────────────────────────┤
│ HI   │ I2C Address              (0x21)          │
│ I2C  │ Data[0]: CMD1 Register   (0x08)          │
│ Write│ Data[1]: BYTE CNT        (0x04)          │
│      │ Data[5:2]: CMD String    ('PBMe')        │
├──────┼─────────────────────────────────────────┤
│ HI   │ I2C Address              (0x21)          │
│ I2C  │ CMD1 Register            (0x08)          │
│ Read │ Return:                                  │
│      │ Byte[0]: BYTE CNT        (0x01)          │
│      │ Byte[1]: Return Code                     │
└──────┴─────────────────────────────────────────┘
```

Return Code

'PBMe' (loop back to HI I2C Read)

!'IPBMe' → Error State Command Rejected

'0000'

```
┌──────┬─────────────────────────────────────────┐
│ HI   │ I2C Address              (0x21)          │
│ I2C  │ CMD1 Register            (0x09)          │
│ Read │ Return:                                  │
│      │ Byte[0]: BYTE CNT        (0x0`)          │
│      │ Byte[1]: Return Code  {See Table 3-1}    │
└──────┴─────────────────────────────────────────┘
```

Return Code

!=0 → Error State See Table 3-1

=0

Patch Mode Exited