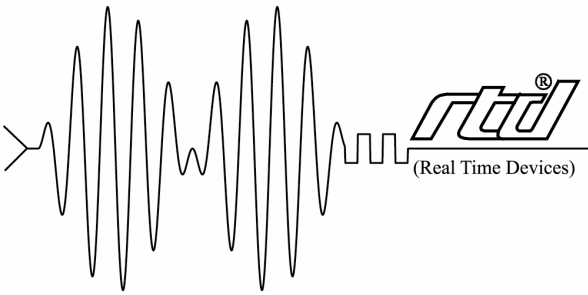
DM6856 Windows Driver API Manual

Version 1.1

User's Manual



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Driver Initialization

To initialize the DM6856 driver from your application use standard Windows API CreateFile function:

```
HANDLE hDevice=CreateFile("\\\\.\\DM68560", GENERIC_READ |
GENERIC_WRITE, 0,  NULL, OPEN_EXISTING, 0, 0);
```

This routine is used to open board in Win98/2000/XP. Last character of the name string defines the zero based board number. The driver was opened succesfully, if hDevice not equal INVALID_HANDLE_VALUE.

This function must be called before any driver function call.

At the end of the application program, the board must be closed with the CloseHandle function:

```
CloseHandle(hDevice);
```

Write Function

This routine is used to write data to the digital outputs. This is 16-bit word programmable read.

```
USHORT          DigOutputValue;
ULONG           nOutput;
DigOutputValue =0x55; // Output value

// Send Write command to the driver
DeviceIoControl(hDevice, DM6856_IOCTL_WRITE, &DigOutputValue,
sizeof(DigOutputValue), NULL, 0, &nOutput, NULL);
```

Read Function

This routine is used to read data from the digital inputs. This is a 16-bit word programmable read.

```
USHORT          DigInputValue; // Input value
ULONG       nOutput;

// Send Read command to the driver
DeviceIoControl(hDevice, DM6856_IOCTL_READ, NULL, 0, &DigInputValue,
sizeof(DigInputValue), &nOutput, NULL);
```

Set Function

This routine is used to set single digital output. This is a bit programmable write.

```
// Zero-based digital output line number to set
USHORT          DigOutputLineNumber;
ULONG           nOutput;

// Zero-based digital output line number
DigOutputLineNumber =6;

// Send Set command to the driver
DeviceIoControl(hDevice, DM6856_IOCTL_SET, &DigOutputLineNumber,
sizeof(DigOutputLineNumber), NULL, 0, &nOutput, NULL);
```

Reset Function

This routine is used to reset single digital output. This is a bit programmable write.

```
// Zero-based digital output line number to reset
USHORT          DigOutputLineNumber;
ULONG nOutput;
// Zero-based digital output line number
DigOutputLineNumber =6;

// Send Reset command to the driver
DeviceIoControl(hDevice, DM6856_IOCTL_RESET, &DigOutputLineNumber,
sizeof(DigOutputLineNumber), NULL, 0, &nOutput, NULL);
```

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