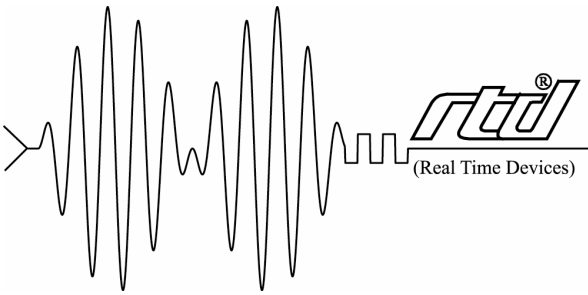
DM6952 Windows Driver API Manual

Version 1.1

User's Manual



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Driver Initialization

To initialize the DM6952 driver from your application use standard Windows API CreateFile function:

```
HANDLE hDevice=CreateFile("\\\\.\\DM69520",
GENERIC_READ | GENERIC_WRITE, 0,  NULL,
OPEN_EXISTING, 0, 0);
```

This routine is used to open board in Win9x/WinMe/Win2000. 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 relay outputs. This is 16-bit word programmable read.

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

// Send Write command to the driver
DeviceIoControl(hDevice, DM6952_IOCTL_WRITE,
&RelayOutputValue, sizeof(RelayOutputValue), NULL, 0,
&nOutput, NULL);
```

Read Function

This routine is used to read the relay outputs state. This is a 16-bit word programmable read.

```
USHORT   RelayOutputValue; // variable to receive relay state word
ULONG            nOutput;

// Send Read command to the driver
DeviceIoControl(hDevice, DM6952_IOCTL_READ,
NULL, 0, &RelayOutputValue, sizeof(RelayOutputValue),
&nOutput, NULL);
```

Set Function

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

```
USHORT          RelayOutputLineNumber; // Zero-based relay output line number to set
ULONG                   nOutput;
RelayOutputLineNumber =6; // Zero-based relay output line number

// Send Set command to the driver
DeviceIoControl(hDevice, DM6952_IOCTL_SET,
&RelayOutputLineNumber, sizeof(RelayOutputLineNumber), NULL, 0, &nOutput, NULL);
```

Reset Function

This routine is used to reset single relay outputs. This is a bit programmable write.

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

// Send Reset command to the driver
DeviceIoControl(hDevice, DM6952_IOCTL_RESET,
&RelayOutputLineNumber, sizeof(RelayOutputLineNumber), NULL, 0, &nOutput, NULL);
```

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