
Keysight B2900B Series Precision Source / Measure Units (SMU)

Firmware Binary Hash Value Check Instruction

This is an Instruction Sheet for B2900B Firmware Binary Hash Value check. More details about this product can be obtained at : [B2900B Series Precision Source / Measure Units \(SMU\) | Keysight](#)

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Procedure to confirm the binary file's hash values are correct.

Procedure for Microsoft Windows users:

1. Open Command Prompt.
2. Type the following and press enter for checking MD5 hash value.

```
certutil -hashfile <file path> MD5
```

To get the SHA1 or SHA256 hash values, change "MD5" to "SHA1" or "SHA256" in the above.

Example Windows Command Prompt:

```
C:\Users\user>certutil -hashfile samplefile MD5
```

Example hash values

MD5 example:

```
132d099fb93c3588105a7de844e4e904
```

CertUtil: -hashfile command completed successfully.

SHA1 example:

```
b51a046f106ce9484884312ee4ddbcb859cb2d8e
```

CertUtil: -hashfile command completed successfully.

SHA256 example:

```
6be240da16fc2576c35f3995e47234612a5e5b15fdcda0768962c3c45c4046c7
```

CertUtil: -hashfile command completed successfully.

Procedure for Linux users:

1. Open terminal
2. Type the following and press enter

```
md5sum <file path>
```

3. Type the following and press enter for checking MD5 hash value.

```
certutil -hashfile <file path> MD5
```

To get SHA1 or SHA256 hash values, change "md5sum" to "sha1sum" or "sha256sum" in the above command.

Linux Terminal Sample:

MD5 example:

```
sample@samplelinux:~$ md5sum samplefile
```

```
132d099fb93c3588105a7de844e4e904 samplefile
```

SHA1 example:

```
sample@samplelinux:~$ sha1sum samplefile
```

```
b51a046f106ce9484884312ee4ddbcc859cb2d8e samplefile
```

SHA256 example:

```
sample@samplelinux:~$ sha256sum samplefile
```

```
6be240da16fc2576c35f3995e47234612a5e5b15fdcda0768962c3c45c4046c7  
samplefile
```

End of document.