

*NFIQ Support C++*



*Programmer's Manual*

*Ver 1.x*

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# Chapter 1 Introduction

NFIQ Module is intended to support NIST Fingerprint Image Quality-compatible under C++ environment.

This module is compatible with eNBioBSP SDK, supports Windows (x86 or x64) and environment of development (C++).



## Chapter 2 Components

NFIQ folder includes as follows:

### ■ Windows folder

bin : contains NBioNFIQ.dll to support x86 or x64.

inc : contains header files to help you develop.

Lib : contains NBioNFIQ.lib to support x86 or x64.

Sample: contains files for C++ compatible sample.

## Chapter 3 API Lists

### API

```
NBioAPI_RETURN NBioAPI_NBioAPI_GetNFIQInfo(const NBioAPI_EXPORT_AUDIT_DATA_PTR pExportAuditData,
                                             NBioAPI_QUALITY_INFO_PTR_0 pQualityInfo);
```

#### Description

Returns value of NFIQ after it analysis fingerprint image structure captured by "NBioAPI\_NBioBSPToImage " API of eNBioBSP SDK.

#### Parameters

NBioAPI\_EXPORT\_AUDIT\_DATA\_PTR pExportAuditData

[in] Structure of image captured by "NBioAPI\_NBioBSPToImage " API of eNBioBSP SDK

NBioAPI\_QUALITY\_INFO\_PTR\_0

[out] Structure of NFIQ Value

#### Return Value

NBioAPI\_RETURN

Error Code of eNBioBSP SDK

```
NBioAPI_RETURN NBioAPI_NBioAPI_GetNFIQInfoFromRaw(const NBioAPI_UINT8* pRawImage,
                                                    const NBioAPI_SINT32 nImgWidth,
                                                    const NBioAPI_SINT32 nImgHeight,
                                                    NBioAPI_SINT32* pNFIQ);
```

#### Description

Returns value of NFIQ after it analysis fingerprint raw image.

#### Parameters

NBioAPI\_UINT8\* pRawImage

[in] Pointer of raw image buffer

NBioAPI\_SINT32 nImgWidth

[in] Width of raw image

NBioAPI\_SINT32 nImgHeight

[in] Height of raw image

NBioAPI\_UINT32\* pNFIQ

[out] Pointer of NFIQ Value

#### Return Value

NBioAPI\_RETURN

Error Code of eNBioBSP SDK