**Equipment Driver Interface**

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# Summary：

|  |  |
| --- | --- |
| **FrameWork Class** | **Descriptions** |
| Algorithm | Algorithm |

# FrameWork

## Alogrithm

Class name：public Algorithm

1. method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| public | double[] | MultiLine | double[] arrX, double[] arrY, int length, int dimension | Fitting coefficient |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| public | double[] | Getlog10 | double[] input | [calculate](app:ds:calculate) double Array log10 |
| public | double | Getlog10 | double input | [calculate](app:ds:calculate) double data |
| public | double[] | GetNegative | double[]input | [calculate](app:ds:calculate) double Array Negative |
| public | float | SelectMinValue | ArrayList inPutArray, out byte minIndex | SelectMinValue inPutArray |
| public | double | SelectMaxValue | ArrayList inPutArray, out byte maxIndex | SelectMaxValueof inPutArray |
| public | double | ChangeUwtoDbm | double uw | ChangeUwtoDbm |
| public | double[] | ChangeDbmtoUw | double dbm | ChangeDbmtoUw |
| public | Byte[] | Uint16DataConvertoBytes | UInt16 inputdata | Change inputdata to byte[] |
| public | bool | MonotonicIncreasingfun | double[] a, int n | Judge double[] is a MonotonicIncreasingfun or not |
| public | bool | MonotonicDecreasingfun | double[] a, int n | Judge double[] is a MonotonicDecreasingfun or not |
| public | bool | FindFileName | DutStruct[] inputStructArray, string filename, out int index | FindFileName in DutStruct[] |
| public | bool | FindFileName | TestModeEquipmentParameters[] inputStructArray, string filename, out int index | FindFileName in TestModeEquipmentParameters[] |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| public | string | ArrayListToStringArraySegregateByPunctuations | ArrayList inputArraylist, string segregatestring | Change arralList to string segregate with segregatestring |
| public | ArrayList | StringtoArraylistDeletePunctuations | string inputString, char[] segregatechars | Change string to arraylist Delete segregatechars |
| public | byte[] | FloatToIEE754 | object inputfloat | Change objiect to byte[] |
| public | byte[] | INT16To2Bytes | object inputint16 | Change objiect to byte[] |
| public | string | ByteArraytoString | byte scale, string ssegregatestring,byte[] inputarry | Change byte[]to decimalism string orOctal string or hexadecimal or string Binarystring |
| public | string | ByteArraytoString | byte scale, string ssegregatestring, UInt32[] inputarry | Change UInt32[]to decimalism string orOctal string or hexadecimal or string Binarystring |
| public | string | ByteArraytoString | byte scale, string ssegregatestring, UInt16[]  inputarry | Change UInt16[]to decimalism string orOctal string or hexadecimal or string Binarystring |
| public | byte[] | ObjectTOByteArray | object inputData, byte length | Turn Object to BytesArray |
| public | double | CalculateOMA | double pvg,double er | Turn pvg to OMA |