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## Docs

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# Connection String

LiteDatabase can be initialized using a string connection, with `key1=value1; key2=value2; ...` syntax. If there is no `=` in your connection string, LiteDB assume that your connection string contains only the `Filename`. Keys are case insensitive. Values can be quoted ( `"` or `'` ) if they contain special characters (like `;` or `=` ).

## Options

Key	Type	Description	Default value
Filename	string	Full or relative path to the datafile. Supports <code>:memory:</code> for memory database or <code>:temp:</code> for in disk temporary database (file will deleted when database is closed) <b>[required]</b>	-
Connection	string	Connection type ("direct" or "shared")	"direct"

Key	Type	Description	Default value
Password	string	Encrypt (using AES) your datafile with a password	null (no encryption)
InitialSize	string or long	Initial size for the datafile (string supports "KB", "MB" and "GB")	0
ReadOnly	bool	Open datafile in read-only mode	false
Upgrade	bool	Check if datafile is of an older version and upgrade it before opening	false

## Connection Type

LiteDB offers 2 types of connections: `Direct` and `Shared`. This affects how the engine will open the data file.

- `Direct`: Engine will open the datafile in exclusive mode and will keep it open until `Dispose()`. The datafile cannot be opened by another process. This is the recommended mode because it's faster and cachable.
- `Shared`: Engine will close the datafile after each operation. Locks are made using `Mutex`. This is more expensive but you can open the same file from multiple processes.

## Example

*App.config*

```
<connectionStrings>  
  <add name="LiteDB" connectionString="Filename=C:\database.db;Password=1234" />  
</connectionStrings>
```

*C#*

```
System.Configuration.ConfigurationManager.ConnectionStrings["LiteDB"].Connection
```

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