VisualGDB Installation

** Contract Section | Contract S

1.

Visual Studio sollte installiert sein

→ Download starten

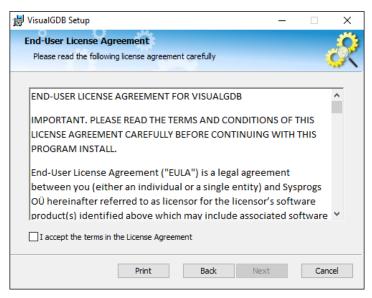
http://visualgdb.com/download/

Download

2.



Setup starten, Fenster öffnet sich "Next" klicken

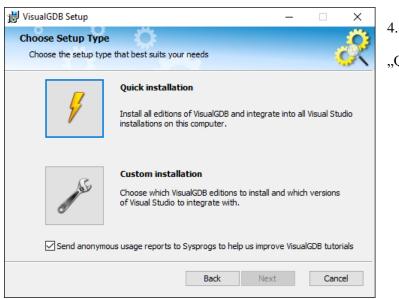


3.

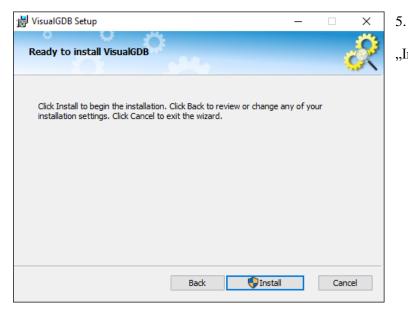
End-User License Agreement lesen

Häkchen bei "I accept the terms in the License Agreement"

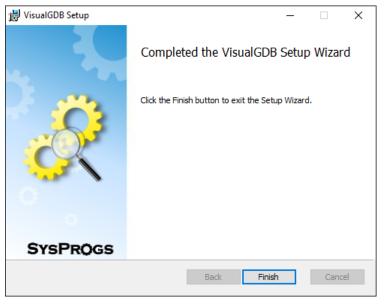
"Next" klicken



"Quick installation" klicken



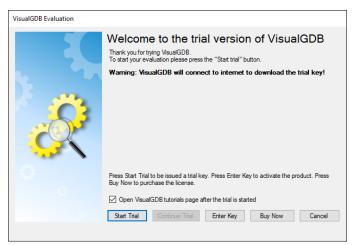
"Install" klicken



6.

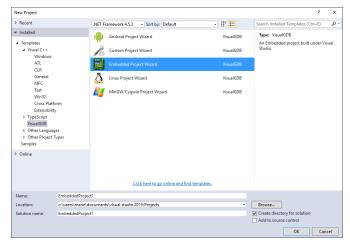
"Finish" klicken

Visual Studio öffnen



"Start Trial" klicken

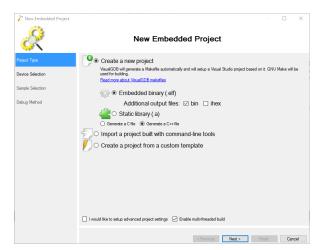
Erste Projekt Einrichtung



1.

In Visual Studio (oben links): File → New → Projekt

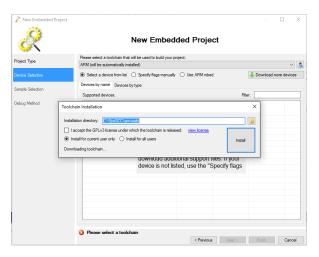
Links "VisualGDB" "Embedded Project Wizard" Man kann Name, Speicherort, Solution name ändern – WICHTIG: Speicherort darf kein Leerzeichen enthalten!!! "OK" klicken



2.

Haken bei Enable multi-threaded build → schneller kompilieren

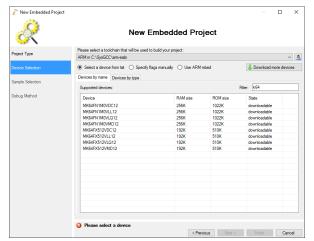
"Next" klicken



3.

Es öffnet sich ein kleines Fenster

"I accept the..." Haken machen "Install" klicken



In der Liste muss man den richtigen Chip auswählen – im Filter kann man danach Suchen

In unserem Fall brauchten wir den MK64FN1M0VLL12



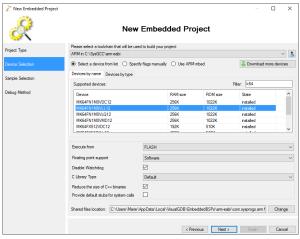
5.

"Ja" – Download starten



6.

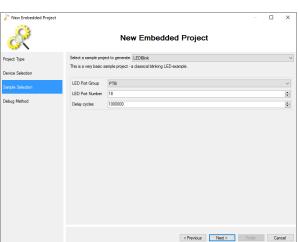
Fenster öffnet sich – Download startet (nur beim ersten Mal)



7.

Einstellungen lassen

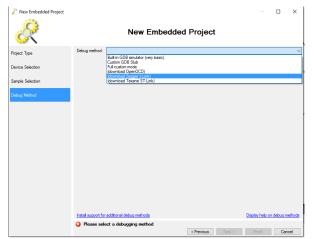
Execute from "FLASH" lassen! Bei RAM gibt es Probleme mit Interrupts "Next" klicken



8.

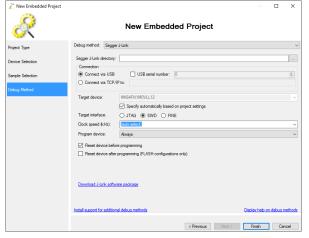
Ports stimmen nicht immer → richtig Einstellen

Delay cycles – Verzögerung beim Blinken



Segger J-Link auswählen

Fenster → "Ja"



10.

Haken bei Reset device after programming!!!

"Download J-Link software package" anklicken



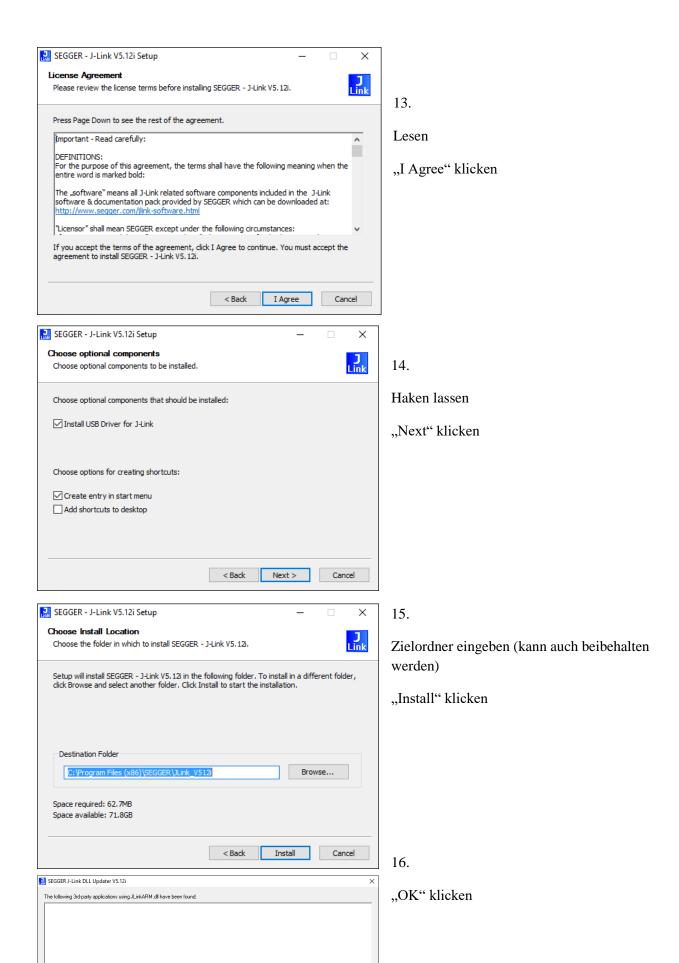
11.

"Click for Downloads" anklicken → 1. Download starten → Lizenzbestimmungen akzeptieren → Setup starten



12.

"Next" klicken

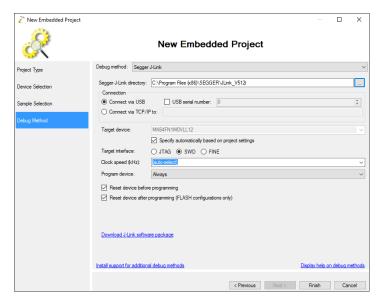


Ok Cancel

Select the ones you would like to replace by this version. The previous version will be renamed and kept in the same folder, allowing manual "undo". In case of doubt, do not replace existing DLL(s). "You can always per



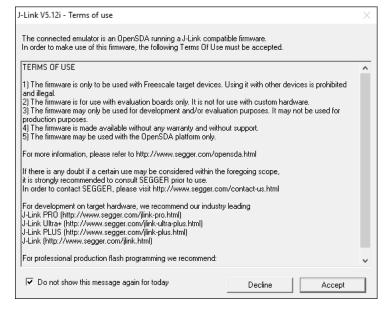
"Finish" klicken



18.

Richtige Einstellungen wählen (siehe Bild)

"Finish" klicken

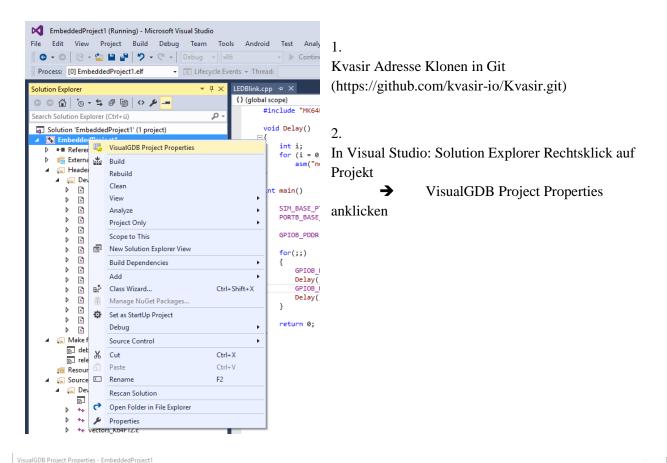


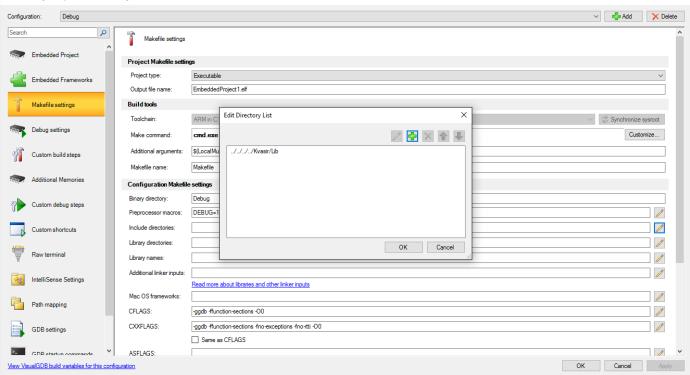
19.

Fenster erscheint bei jedem Start → Haken setzen, dann nur noch einmal am Tag

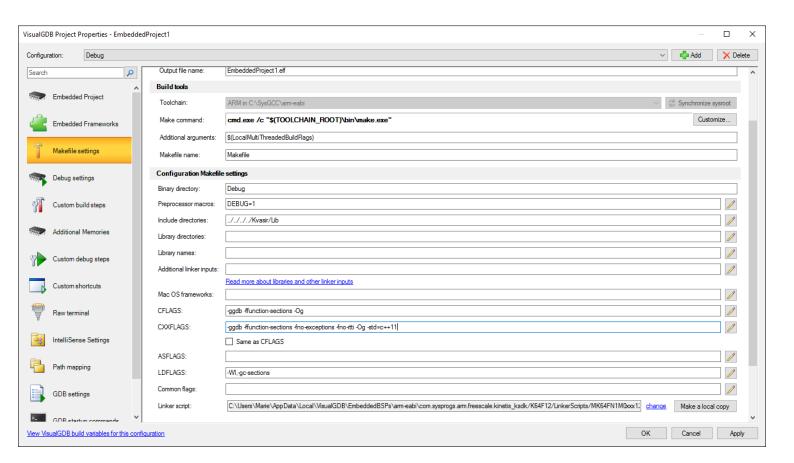
Wenn es Probleme gibt, Computer neustarten

Make it Kvasir





3.



CFLAGS

→ -O0 ändern zu -Og

CXXFLAGS

- → -O0 ändern zu -Og
- → -std=c++11 hinzufügen

```
//#include "MK64F12.h"
 #include "Chip/MK64F12.hpp"
 void Delay()
⊟{
     int i;
     for (i = 0; i < 1000000; i++)
         asm("nop");
}
 int main()
⊟ {
     SIM_BASE_PTR->SCGC5 |= SIM_SCGC5_PORTB_MASK;
     apply(write(Kvasir::SimScgc5::PortbValC::v1));
     PORTB BASE PTR->PCR[22] = PORT PCR MUX(1);
     apply(write(Kvasir::PortbPcr22::MuxValC::v001)); //v001=gpio
 // GPIOB PDDR = 1 << 22;
     constexpr auto ledr = makePinLocation(Kvasir::Io::portB, Kvasir::Io::pin22);
     apply(makeOutput(ledr));
     for(;;)
 //
         GPIOB_PSOR = 1 << 22;
         apply(set(ledr));
         Delay();
 //
         GPIOB PCOR = 1 << 22;
         apply(clear(ledr));
         Delay();
     return 0;
_ }
```

An Hand dieses Beispiels wird gezeigt wie das Blinki Programm für das frdm-k64f nach Kvasir portiert aussieht. Die ursprünglichen Befehle sind als Kommentare beibehalten.