

NuDeveloper Ecosystem

Make the engineers' job easier.

黃俊豪 Howard Huang

Microcontroller Marketing and Application Division

Senior Engineer

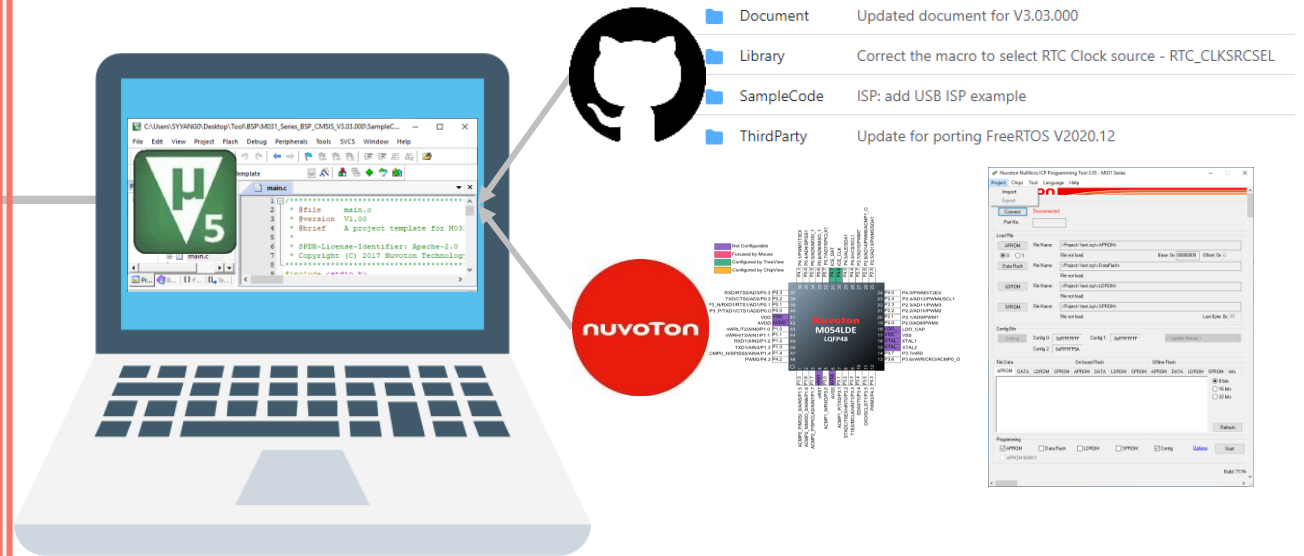
Joy of innovation
nuvoTon

NuDeveloper Ecosystem Use Case

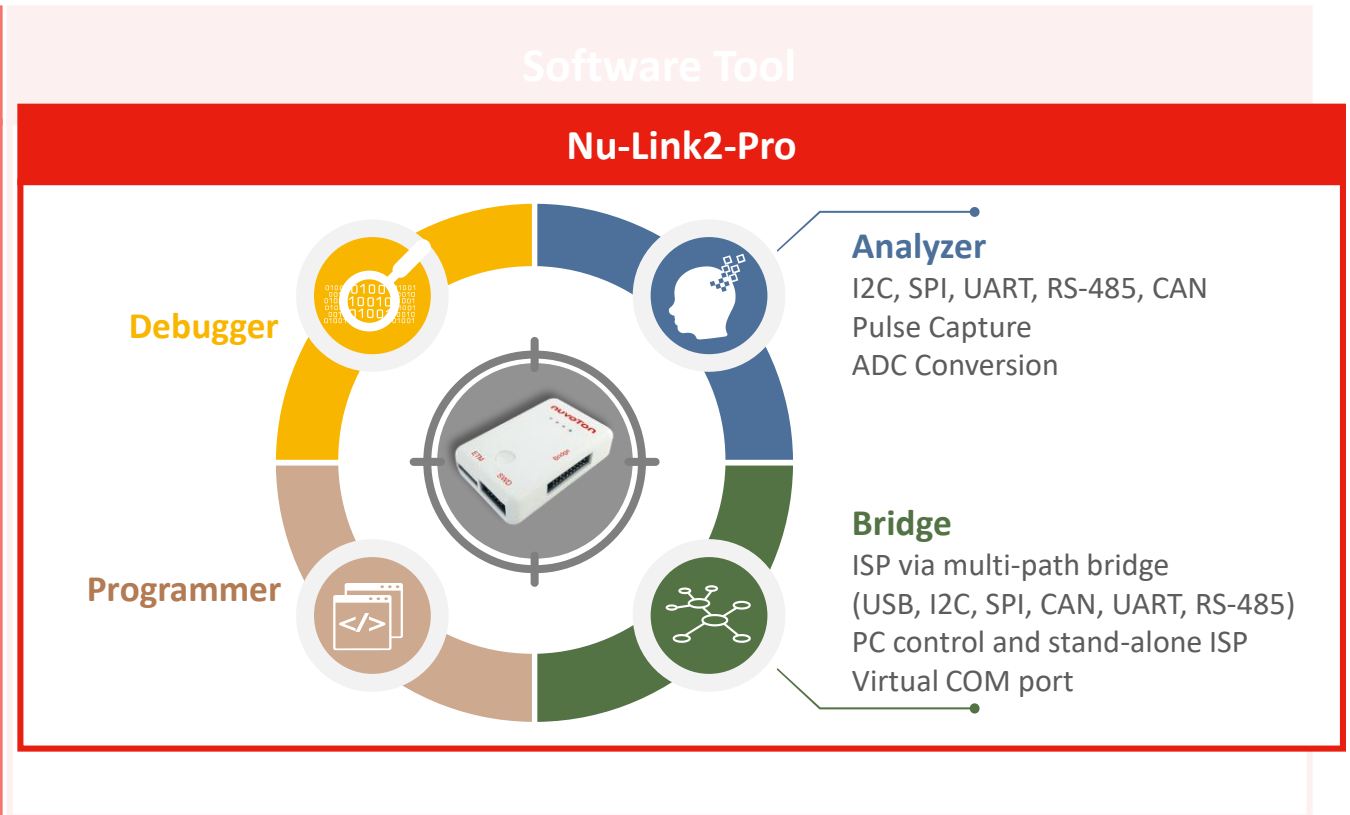
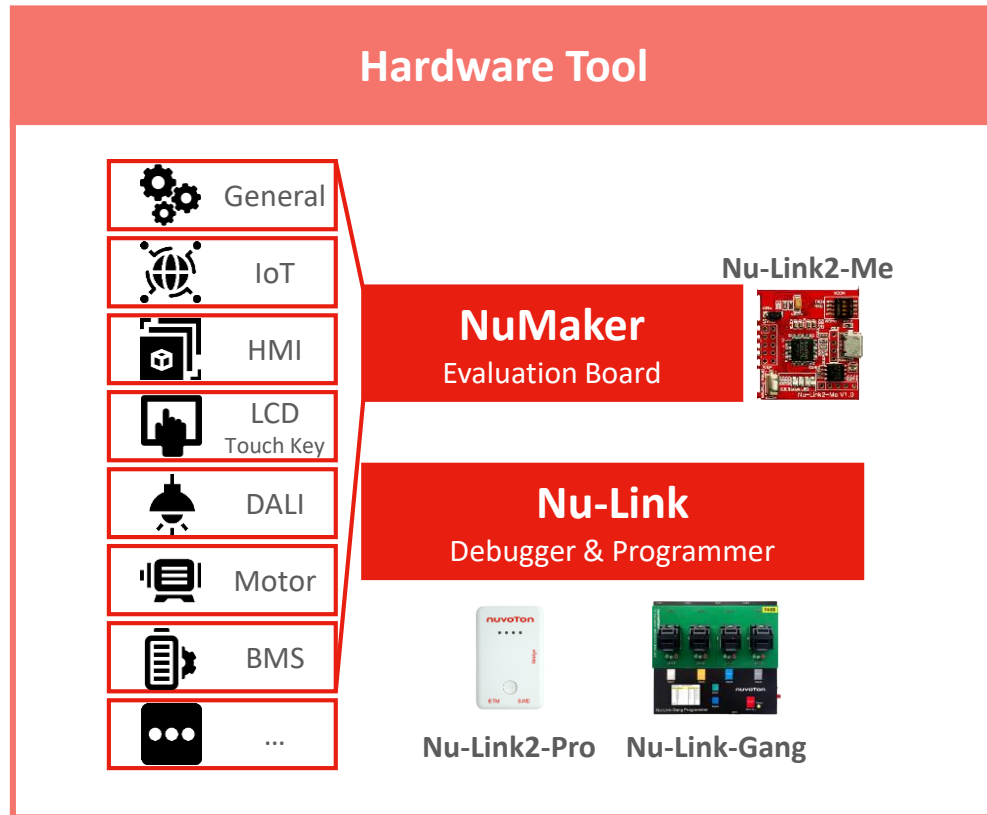
Hardware Tool



Software Tool

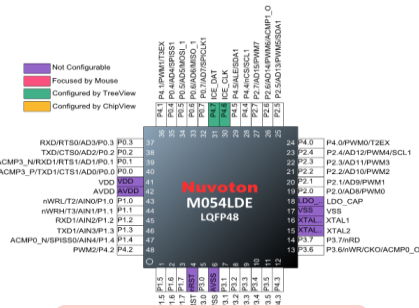


All in 1 to Make Job Easier



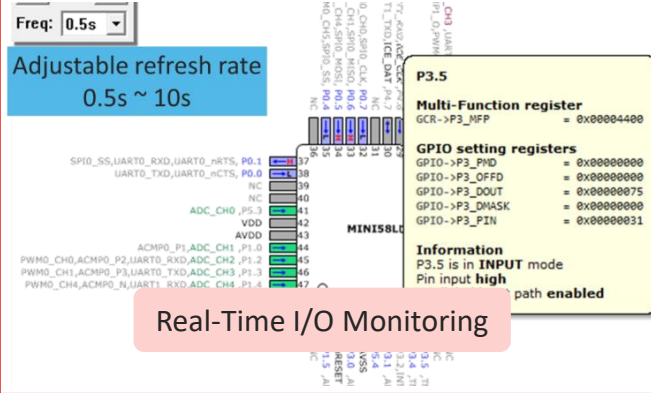
All in 1 to Make Job Easier

PinConfigure



Graphical I/O setting

PinView



Real-Time I/O Monitoring

Software Tool

IDE

KEIL™
Tools by ARM

IAR

NuEclipse

Free-to-use for
NuMicro M0/M23
Special offer for all
NuMicro Series

Free-to-use for
NuMicro M0/M23/M4,
1T 8051 Coming soon!!

BSP

Board Support Package

- Comprehensive drivers
- Plentiful peripheral examples
- API compatibility

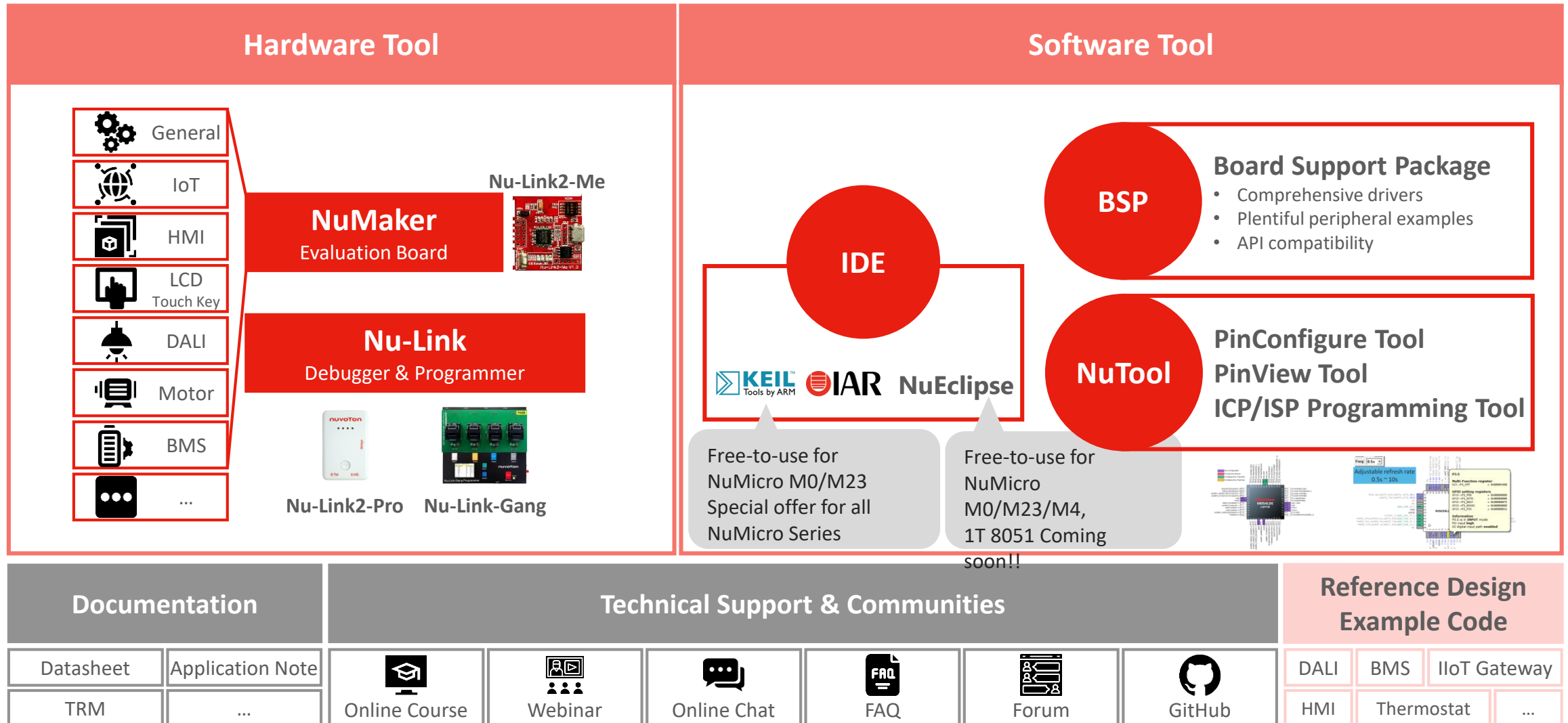
NuTool

PinConfigure Tool

PinView Tool

ICP/ISP Programming Tool

All in 1 to Make Job Easier



| All in 1 to Make Job Easier

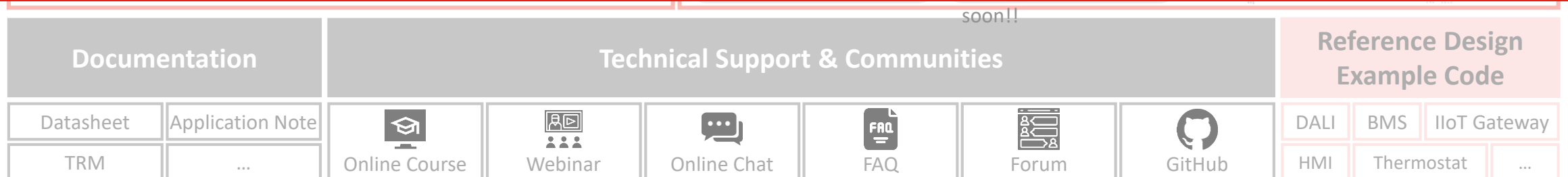


The Way to Implement
3 Steps by
1 Platform

1
Development

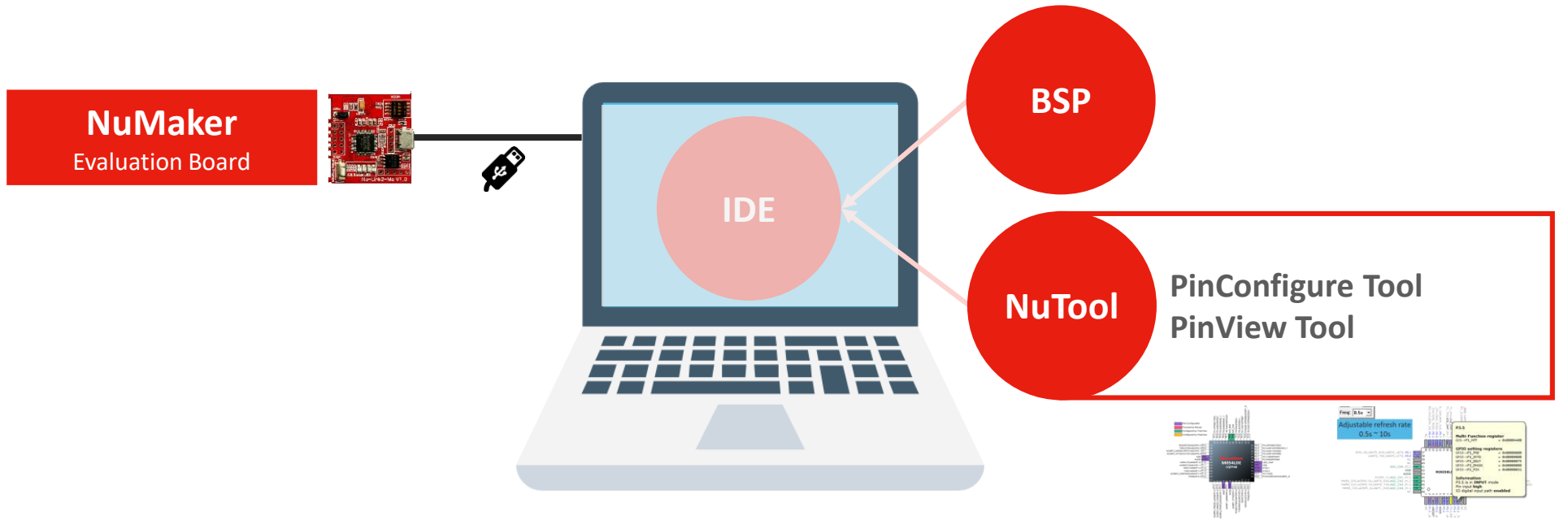
2
Mass Production

3
Upgrade



All in 1 to Make Job Easier

1 Development



Documentation

Datasheet

Application Note

TRM

...

Technical Support & Communities



Online Course



Webinar



Online Chat



FAQ



Forum



GitHub

Reference Design Example Code

DALI

BMS

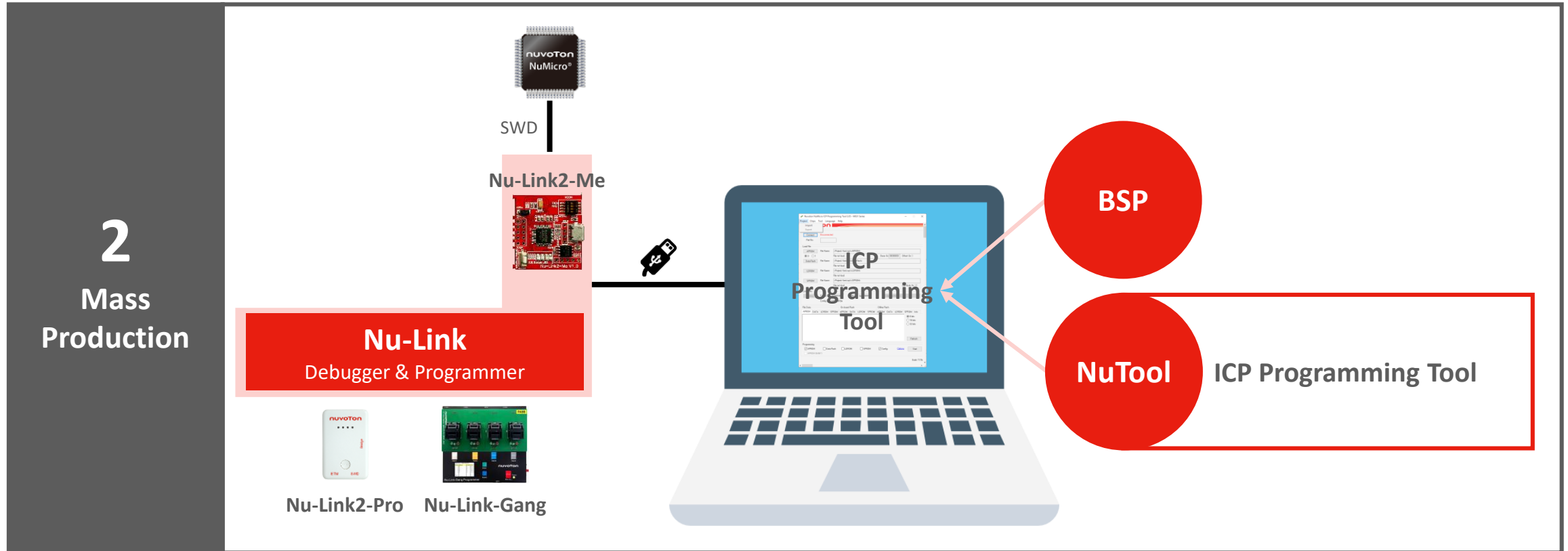
IIoT Gateway







HMI

Thermostat

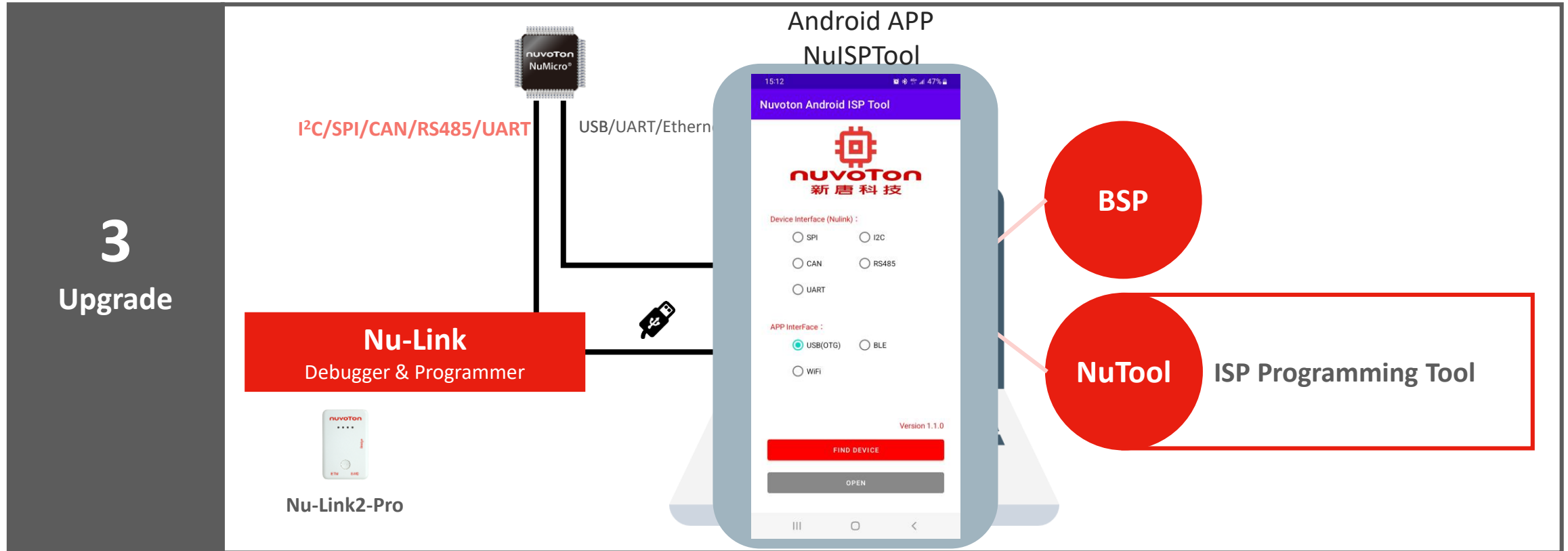
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| All in 1 to Make Job Easier



| Documentation | | Technical Support & Communities | | | | | Reference Design Example Code | | | |
|---------------|------------------|--|--|--|--|--|---|------|------------|--------------|
| Datasheet | Application Note |  Online Course |  Webinar |  Online Chat |  FAQ |  Forum |  GitHub | DALI | BMS | IIoT Gateway |
| TRM | ... | | | | | | | HMI | Thermostat | ... |

| All in 1 to Make Job Easier



Documentation

Datasheet

Application Note

TRM

...

Technical Support & Communities



Online Course



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Reference Design Example Code

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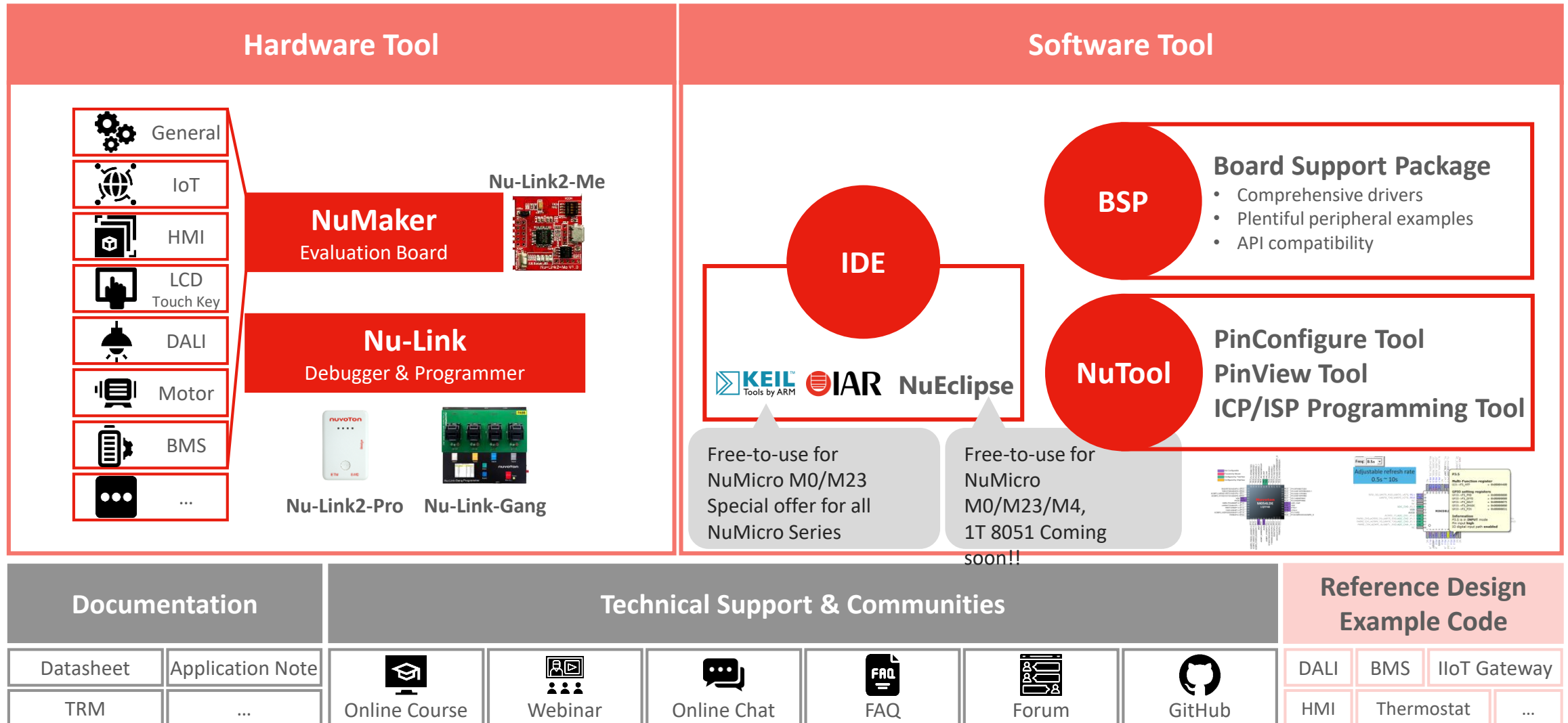
HMI

Thermostat

...

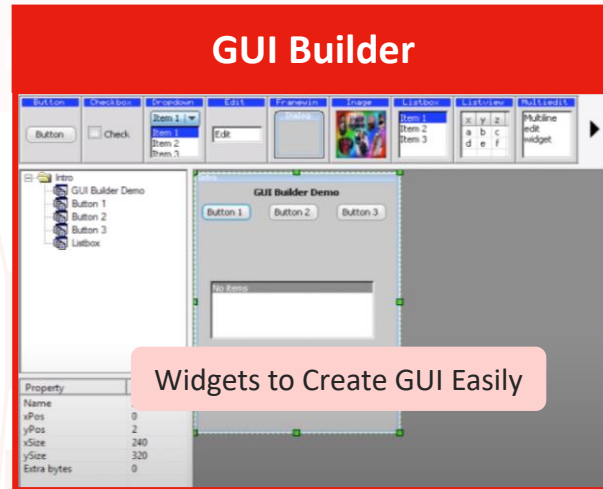
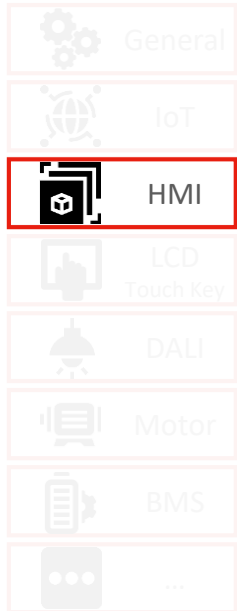
All in 1 to Make Job Easier

Up-to-Date Tools for Specific Applications

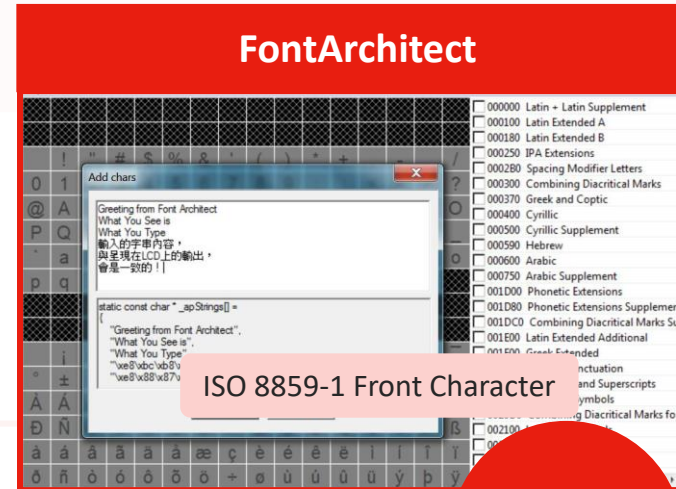


All in 1 to Make Job Easier

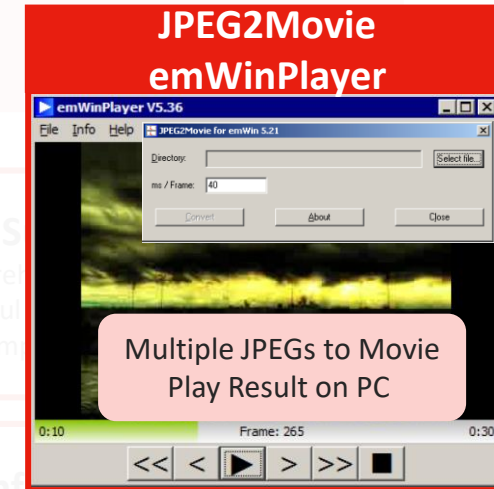
Up-to-Date Tools for Specific Applications



Widgets to Create GUI Easily



ISO 8859-1 Front Character



Multiple JPEGs to Movie
Play Result on PC



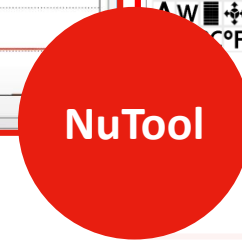
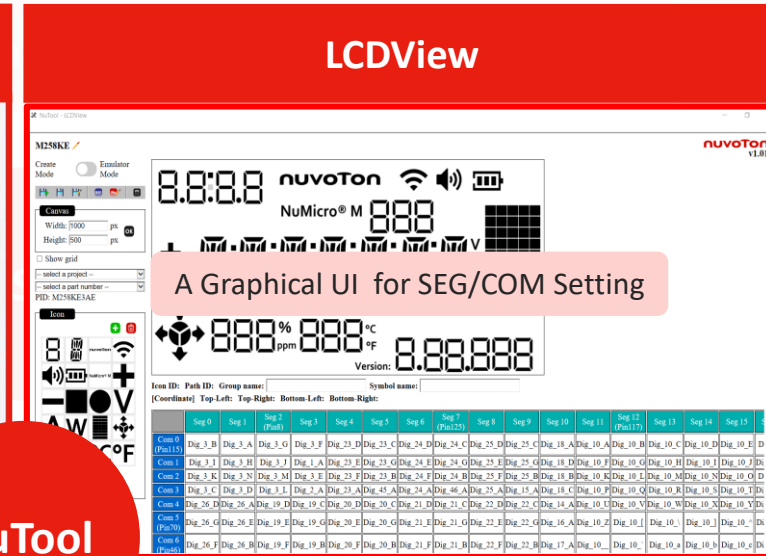
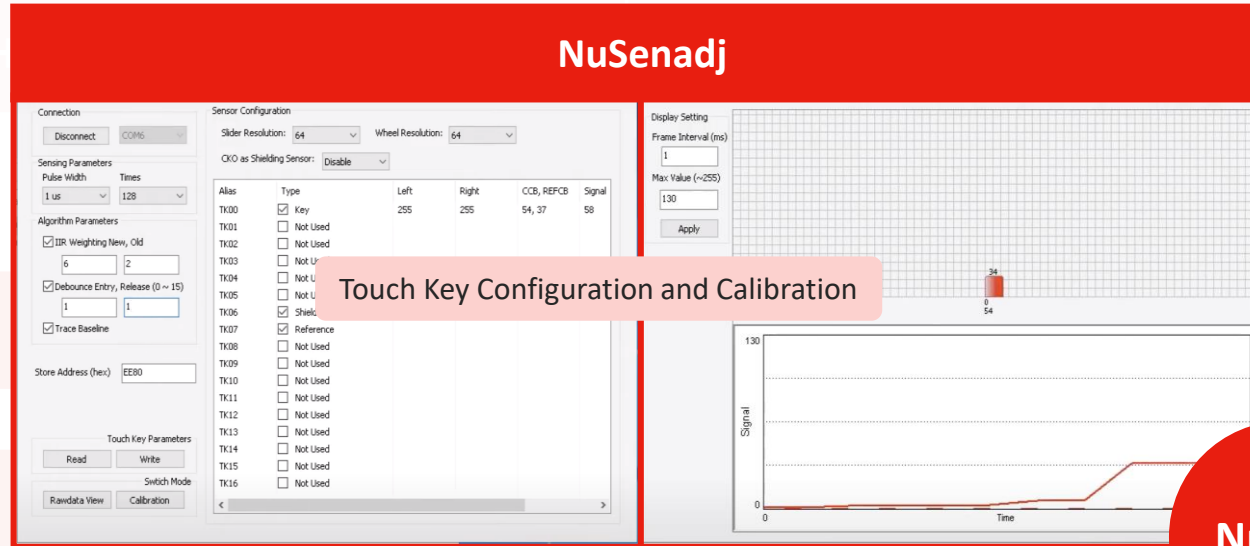
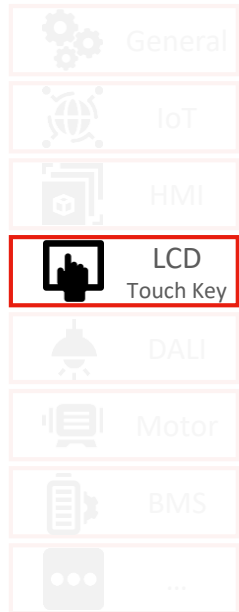
QVGA TFT LCM
with Touch

NuMaker-HMI-M487

Ease Your Development & Save Your Time

All in 1 to Make Job Easier

Up-to-Date Tools for Specific Applications



NuMaker-M258KE+TN-LCD Extension

Ease Your Development & Save Your Time

All in 1 to Make Job Easier

All Cores Supported: 8051, M0, M23, M4 and M7

Up-to-Date Tools for Specific Applications

DALIController

Discovery | DALI Commands | Monitoring

DALI Command

- DIRECT ARC POWER CONTROL

Data value

Dec 0 Hex 0

Send command to:

☒ All (broadcast)

☐ All (broadcast Unaddressed)

☐ Group 0

☐ Address 0

Initialization, Commands and Monitoring

Command

Dec Hex

☐ 103 Command 0

Response

Dec Hex

Software Tool

BSP

Board Support Package

- Comprehensive drivers
- Plentiful peripheral examples
- API compatibility

IDE

NuTool

PinConfigure Tool

PinView Tool

ICP/ISP Programming Tool

KEIL Tools by ARM IAR NuEclipse

Ease Your Development & Save Your Time

Master

Slave

NuMaker-DALI-NDA102SD2+DALI Slave NDA102EC1

All in 1 to Make Job Easier

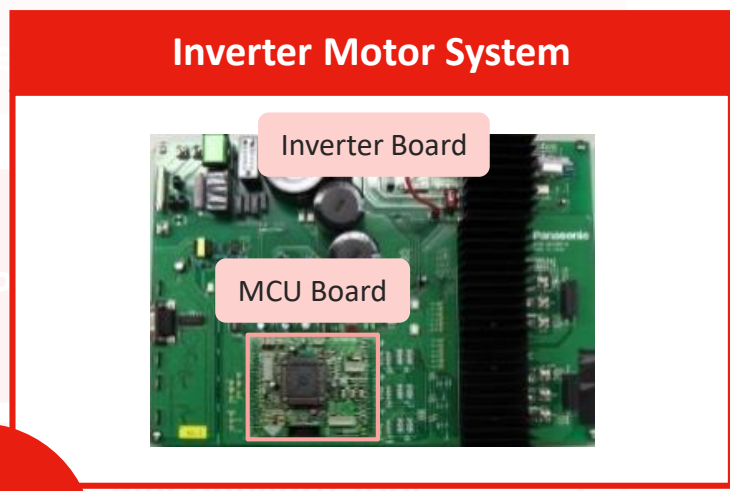
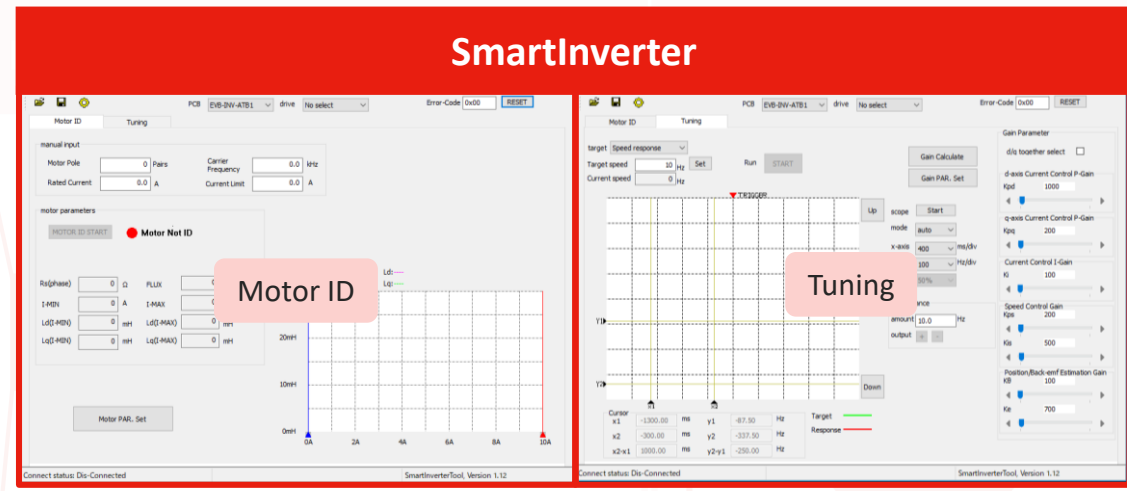
Up-to-Date Tools for Specific Applications

*also supports AM32R core

Inverter Motor

- HMI
- LCD Touch Key
- DALI
- Motor
- BMS
- ...

NuMotor



NuTool

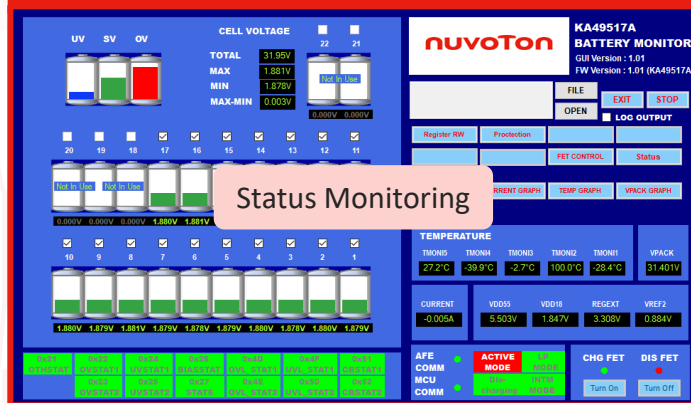


All in 1 to Make Job Easier

All Cores Supported: 8051, M0, M23, M4 and M7

Up-to-Date Tools for Specific Applications

BMS_KA49517/22A GUI Software



Debugger & Programmer

BMS Board
KA49517A/KA49522A

MCU Board
M483SE8AE

BM-IC System

Software Tool

BSP

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IDE

NuTool

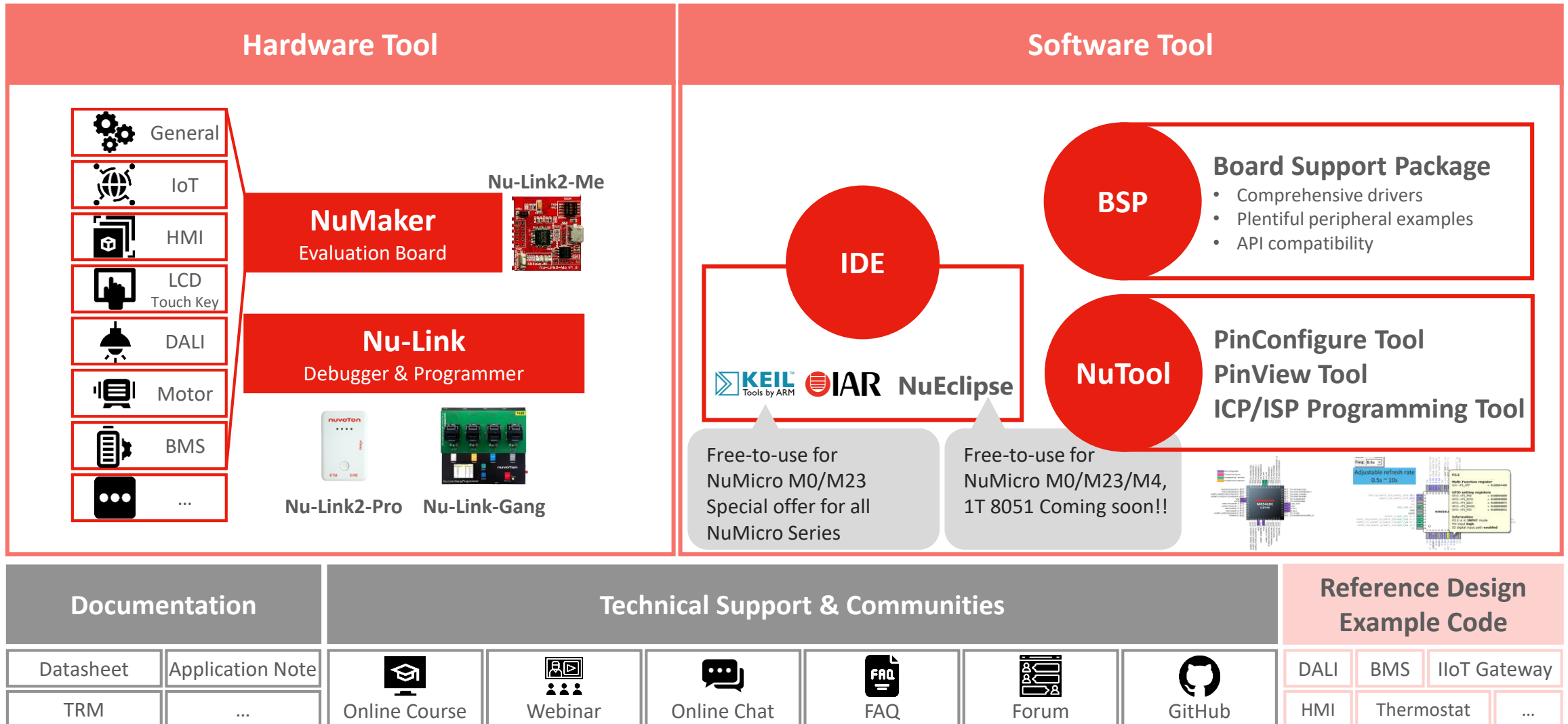
PinConfigure Tool

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Ease Your Development & Save Your Time

All in 1 to Make Job Easier



NuDeveloper Ecosystem

Make the Engineers' Job Easier

Hardware and Software Tool for General Use or Applications
Complete Tool Kits



Accessible Support
Get Tech Support/Training Easily

Low Entry Barrier
1 USB Cable

Solid Database
Resource for MCUs, MPUs, EVBs and Tools

Plentiful Example
Reference Design and Example Code for Applications

Join us anywhere anytime

| Digital Platform



[Nuvoton.com](https://www.nuvoton.com)

- Information Hub
- Online Support



[Nuvoton
NuMicro MCU](#)



[Nuvoton Direct](#)

- Official eStore
- Online Support



[NuForum](#)



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- Online Dist. Channel



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[Nuvoton
Technology
Corporation](#)



[TechDesign](#)

- Partner Channel

Joy of innovation
nuvoTon

Thank You

Danke

Merci

ありがとう

Gracias

Kiitos

감사합니다

धन्यवाद

كل ارکش

הודות