Infineon AURIX™ Microcontrollers

Intelligent solutions for Industrial Applications
AURIX™: Infineon’s TriCore Processor

Three in One

MICROCONTROLLER
- Fast context switch & interrupt response
- Integrated Peripheral support
- Powerful bit manipulation unit & comparison Instructions

RISC processor
- 32-bit load/store Harvard architecture
- Super-scalar execution & uniform register set
- Memory Protection Unit (MPU) & C/C++ and RTOS support

DSP
- Sustainable single-cycle dual MAC
- DSP addressing modes & Zero overhead modes
- Saturation, Rounding & Q-Math (fraction format)

AURIX™ TriCore unites the elements of a RISC processor core, a microcontroller and a DSP in one single MCU!
AURIX™ - the right **solution** for Industry

**ENABLEMENT**
- Excellent Know-How & Support
- Highest Quality Standards and Longterm Supply Availability
- Future Vision and real Infineon Commitment for Industry

**PLATFORM CONCEPT**
- From Single Core up to 6 Cores
- From value efficiency to high performance devices

**RIGHT FEATURES**
- Strong Real.Time Capability
- Strong Mixed Signal Capability: multiple ADCs & DS-ADC
- High Resolution PWM
- Multiple Motor-Footback systems

**SAFETY**
- Family Safety Concept
- IEC61508 documentation (FMEDA / Safety Manual)
- Safety & Certification Support

**CONNECTIVITY & SECURITY**
- Industrial Connectivity: TSN (Time Sensitive Network), 1Gb Ethernet, etc…
- Hardware Security Support

**EXTENSIVE ECOSYSTEM**
- Free and comprehensive toolchain to get started

*No other MCU family can offer this **combination** of functionality across multiple compatible products*
## AURIX™ - Industry Focus Applications

### Power & Energy
- Solar Inverter
- Wind Inverter
- Renewable Energies
- Off-board charger

### Smart Vehicles
- Fun vehicles, e.g. skidoo, jet ski
- Agricultural
- Earth moving e.g. terex
- Construction e.g. caterpillar (CAV)
- Special vehicles
- Crane systems
- Train system
- Avionics
- Boats

### Factory Automation
- PLC, µPLC
- Servo Drives
- Robotics / eRobotics
- In-factory vehicles

### Others
- Drones
- Radar applications
- Medical
- Elevators
- RTOS & Cloud Connectivity

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**AURIX™ for industrial applications:** one product family, multiple use cases!
AURIX™: Quality & Reliability
Continuity of supply is critical for our customers. AURIX™ delivers.
AURIX™: Long Term Technology Availability

### 32 Bit (TriCore™) Technology Horizon: AURIX™ 1G

| Product | Technology | Wafer Fab | Location | 2014 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 |
|---------|------------|-----------|----------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| TC26x   | 65nm       | TSMC      | Taiwan   | 1    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| TC27x   | 65nm       | TSMC      | Taiwan   | 1    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| TC29x   | 65nm       | TSMC      | Taiwan   | 1    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| TC23x   | 65nm       | TSMC      | Taiwan   | 1    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| TC22x   | 65nm       | TSMC      | Taiwan   | 1    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| TC21x   | 65nm       | TSMC      | Taiwan   | 1    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

- Qualification successfully completed/mass production
- No new designs recommended
- No prognosis from today’s perspective possible, depending on volume

The **Long term availability & Next Level of Zero Defect** program ensures **Quality & extended product supply life cycle** throughout the full AURIX™ MCU products.
AURIX™: Scalable Family Concept
# AURIX™: TC2xx Scalable Family

From low cost to high performance applications

<table>
<thead>
<tr>
<th>Flash</th>
<th>TC29x 8 MB</th>
<th>TC27x 4 MB</th>
<th>TC26x 2.5 MB</th>
<th>TC23x 2 MB</th>
<th>TC22x 1 MB</th>
<th>TC21x 512 kB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Package</td>
<td>TQFP 80</td>
<td>TQFP 100</td>
<td>T/LQFP 144</td>
<td>LQFP 176</td>
<td>LFBGA 292</td>
<td>LFBGA 516</td>
</tr>
</tbody>
</table>

- **MCU Scalability**
  - Performance & Flash
  - Software compatibility
  - Pin-compatibility
  - Diverse timer architecture

- **Power Consumption**
  - On-chip DC/DC high-efficiency power supply

- **Safety Concept**
  - PRO-SIL™ ISO26262/IEC61508 compliance
  - HW redundancy options

- **Security Concept**
  - Selected devices with Hardware Security Module (HSM)

- **Availability**
  - All devices are in mass production

- **Tools & Boards**
  - Multiple options available

## Devices with HSM

- Upgrade/Downgrade path with pin compatible packages

- Single Core (S) Single Lockstep Core (L), Dual Core (D) Triple Core (T)

PRO-SIL™: Safety supporting features
AURIX™: TC29x Series – Performance Device

The AURIX™ family addresses applications, where more performance, connectivity, safety and security are needed.

AURIX™ TC2xx microcontrollers serve the precise needs of the automotive and industrial market in terms of performance and safety.

**Most innovative safety:**
- Diverse Lockstep Core with clock delay
- Redundant and diverse timer modules (GTM, CCU6, GPT12)
- Access permission system
- Safety management unit
- DMA
- I/O, clock, voltage monitor
- Developed and documented following ISO 26262 to support safety requirements up to ASIL-D
- AUTOSAR V3.2 and V4.x

**System benefits:**
- Diverse Lockstep architecture to reduce development effort for ASIL-D systems.
- High integration for reduced complexity and significant cost savings.
- Delta-sigma analog-to-digital converters for fast and accurate measurements.
- Innovative single supply concept for best-in-class power consumption and cost savings in external supply.
- Scalability in terms of performance, packages, memory and peripherals for flexibility across platform concepts.
- Available as single and lockstep core.
- Latest connectivity CAN FD (flexible data rate).
- Scalable safety from QM to ASIL D for Industrial and Automotive Applications.
- Dedicated emulation device chip (ED) for multicore debugging, tracing and calibration.
- Hot package options for extended temperature range.
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![AURIX™ TC21x Series - Value Efficient Device](image-url)
**AURIX™ family concept** offers both scalable feature-sets and pin-outs for optimal flexibility.

<table>
<thead>
<tr>
<th>Feature Set</th>
<th>9x Series</th>
<th>7x Series</th>
<th>6x Series</th>
<th>3x Series</th>
<th>2x Series</th>
<th>1x Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>TriCore 1.6P</td>
<td># Cores / Checker</td>
<td>3 / 1</td>
<td>2 / 1</td>
<td>1 / 1</td>
<td>- / -</td>
<td>- / -</td>
</tr>
<tr>
<td>Frequency</td>
<td>2x300 / 1x200 MHz</td>
<td>200 MHz</td>
<td>200 MHz</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TriCore 1.6E</td>
<td># Cores / Checker</td>
<td>- / -</td>
<td>1 / 1</td>
<td>1 / -</td>
<td>1 / 1</td>
<td>1 / 1 (1 / 0)</td>
</tr>
<tr>
<td>Frequency</td>
<td>-</td>
<td>200 MHz</td>
<td>200 MHz</td>
<td>200 MHz</td>
<td>133 MHz</td>
<td>133 MHz</td>
</tr>
<tr>
<td>Flash</td>
<td>Program Flash</td>
<td>8 MB</td>
<td>4 MB</td>
<td>2.5 MB</td>
<td>2 MB</td>
<td>1 MB</td>
</tr>
<tr>
<td>EEPROM @ w/e cycles</td>
<td>128 KB @ 500k</td>
<td>64 KB @ 500k</td>
<td>16 KB @ 500k</td>
<td>128k @ 125 k cycles</td>
<td>96k @ 125k cycles</td>
<td>64k @ 125k cycles</td>
</tr>
<tr>
<td>SRAM</td>
<td>Total (DMI, PMI, LMU)</td>
<td>728 KB</td>
<td>472 KB</td>
<td>240 KB</td>
<td>192 KB</td>
<td>96 KB</td>
</tr>
<tr>
<td>DMA</td>
<td>Channels</td>
<td>128</td>
<td>64</td>
<td>48</td>
<td>16</td>
<td>16</td>
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<tr>
<td>ADC</td>
<td>Modules 12bit / DS</td>
<td>11 / 10</td>
<td>8 / 6</td>
<td>4 / 3</td>
<td>2 / -</td>
<td>2 / -</td>
</tr>
<tr>
<td></td>
<td>Channels 12bit / DS</td>
<td>84 / 10 diff</td>
<td>60 / 6 diff</td>
<td>50 / 3 diff</td>
<td>24 / -</td>
<td>- / -</td>
</tr>
<tr>
<td>Timer</td>
<td>GTM Input / Output</td>
<td>48 / 152 channels</td>
<td>32 / 88 channels</td>
<td>24 / 64 channels</td>
<td>8 / 32</td>
<td>8 / 32</td>
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<tr>
<td></td>
<td>CCU / GPT modules</td>
<td>2 / 1</td>
<td>2 / 1</td>
<td>2 / 1</td>
<td>2 / 1</td>
<td>2 / 1</td>
</tr>
<tr>
<td>Interfaces</td>
<td>FlexRay (#/ch.)</td>
<td>2 / 4</td>
<td>1 / 2</td>
<td>1 / 2</td>
<td>1 / 2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>SENT / PSI5 / PSI5S</td>
<td>15 / 5 / 1</td>
<td>10 / 3 / 1</td>
<td>6 / 2 / 1</td>
<td>4 / -</td>
<td>4 / -</td>
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<tr>
<td></td>
<td>HSCT / MSC / EBU</td>
<td>1 / 3 diff LVDS / 1</td>
<td>1 / 2 diff LVDS / -</td>
<td>1 / 2 diff LVDS / -</td>
<td>- / - / -</td>
<td>- / - / -</td>
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<tr>
<td></td>
<td>Other</td>
<td>Ethernet</td>
<td>Ethernet</td>
<td>Ethernet</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Safety</td>
<td>SIL Level</td>
<td>ASIL-D</td>
<td>ASIL-D</td>
<td>ASIL-D</td>
<td>ASIL-D</td>
<td>ASIL-D</td>
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<tr>
<td>Security</td>
<td>HSM</td>
<td>Yes</td>
<td>Optional</td>
<td>No</td>
<td>Optional</td>
<td>No</td>
</tr>
<tr>
<td>Power</td>
<td>EVR</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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# AURIX™ device list: Endless applications

AURIX™ family concept offers both scalable feature-sets and pin-outs for optimal flexibility.

<table>
<thead>
<tr>
<th>Feature Set Special Devices</th>
<th>29x Xtended</th>
<th>29x ADAS</th>
<th>26x ADAS</th>
<th>23x Xtended</th>
<th>23x ADAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TriCore</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># Cores / Checker</td>
<td>3 / 1</td>
<td>3 / 1</td>
<td>- / -</td>
<td>- / -</td>
<td>- / -</td>
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<tr>
<td>Frequency</td>
<td>2x300 / 1x200 MHz</td>
<td>2x300 / 1x200 MHz</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>TriCore</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.6P</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td># Cores / Checker</td>
<td>- / -</td>
<td>- / -</td>
<td>1 / -</td>
<td>1 / 1</td>
<td>1 / 1</td>
</tr>
<tr>
<td>Frequency</td>
<td>-</td>
<td>-</td>
<td>200 MHz</td>
<td>200 MHz</td>
<td>200 MHz</td>
</tr>
<tr>
<td>Flash</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Flash</td>
<td>8 MB</td>
<td>8 MB</td>
<td>2.5 MB</td>
<td>2 MB</td>
<td>2 MB</td>
</tr>
<tr>
<td>EEPROM @ w/e cycles</td>
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<td>16 KB @ 500k</td>
<td>128k, 125 k cycles</td>
<td>128k, 125 k cycles</td>
</tr>
<tr>
<td>SRAM</td>
<td>728 KB + 2MB</td>
<td>728 KB + 2MB</td>
<td>240 KB + 512 KB</td>
<td>192 KB + 512 KB</td>
<td>192 KB + 512KB</td>
</tr>
<tr>
<td>DMA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channels</td>
<td>128</td>
<td>128</td>
<td>48 + ADAS DMA</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>ADC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modules 12bit / DS</td>
<td>11 / 10</td>
<td>11 / 10</td>
<td>4 / 3</td>
<td>4 / -</td>
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<tr>
<td>Channels 12bit / DS</td>
<td>84 / 10 diff</td>
<td>84 / 10 diff</td>
<td>40 / 3 diff</td>
<td>24 / -</td>
<td>24 / -</td>
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<tr>
<td>Timer</td>
<td>48 / 152 channels</td>
<td>48 / 152 channels</td>
<td>24 / 64 channels</td>
<td>8 / 32</td>
<td>8 / 32</td>
</tr>
<tr>
<td>GTM Input / Output</td>
<td>2 / 1</td>
<td>2 / 1</td>
<td>2 / 1</td>
<td>2 / 1</td>
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<td>CCU / GPT modules</td>
<td>2 / 4</td>
<td>2 / 4</td>
<td>1 / 2</td>
<td>1 / 2</td>
<td>1 / 2</td>
</tr>
<tr>
<td>Interfaces</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FlexRay (#/ch.)</td>
<td>2 / 4</td>
<td>2 / 4</td>
<td>1 / 2</td>
<td>1 / 2</td>
<td>1 / 2</td>
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<tr>
<td>SENT / PSIS / PSI5S</td>
<td>15 / 5 / 1</td>
<td>15 / 5 / 1</td>
<td>6 / 2 / 1</td>
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<td>4 / -</td>
</tr>
<tr>
<td>HSCT / MSC / EBU</td>
<td>1 / 3 diff LVDS / 1</td>
<td>1 / 3 diff LVDS / 1</td>
<td>1 / 2 diff LVDS / -</td>
<td>- / - / -</td>
<td>- / - / -</td>
</tr>
<tr>
<td>Other</td>
<td>Ethernet, CIF, FFT accelerator</td>
<td>Ethernet, CIF, FFT accelerator</td>
<td>Ethernet, CIF, FFT accelerator</td>
<td>Ethernet, FFT accelerator</td>
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<tr>
<td>Safety</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIL Level</td>
<td>ASIL-D</td>
<td>ASIL-D</td>
<td>ASIL-D</td>
<td>ASIL-D</td>
<td>ASIL-D</td>
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<tr>
<td>Security</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSM</td>
<td>Yes</td>
<td>Optional</td>
<td>No</td>
<td>Option</td>
<td>Option</td>
</tr>
<tr>
<td>Power</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EVR</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Consult the AURIX™ product selector to order samples today!
AURIX™: Functional Safety
The AURIX™ architecture is developed to allow compliance with multiple IEC 61508 across several applications.

<table>
<thead>
<tr>
<th>Industry</th>
<th>Standard</th>
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</thead>
<tbody>
<tr>
<td>Automotive</td>
<td>ISO 26262</td>
</tr>
<tr>
<td>Machinery</td>
<td>IEC 62061</td>
</tr>
<tr>
<td>Railway</td>
<td>EN 50129</td>
</tr>
<tr>
<td>Nuclear Power</td>
<td>IEC 61513</td>
</tr>
<tr>
<td>Process Industry</td>
<td>IEC 61511</td>
</tr>
<tr>
<td>Household Appliances</td>
<td>IEC 60335</td>
</tr>
<tr>
<td>Furnaces</td>
<td>IEC 50156</td>
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<tr>
<td>Agriculture</td>
<td>ISO 25119</td>
</tr>
<tr>
<td>Aviation</td>
<td>DO-178</td>
</tr>
</tbody>
</table>
What is PRO-SIL™?

- PRO-SIL™ shows where an Infineon product has SIL (Safety Integrity Level) features
- Allows Infineon products to attain SIL (IEC 61508) and ASI ISO 26262) level for safety systems

IEC 61508 Safety focused. Designed from the beginning with Safety in mind.

The AURIX™ is PRO-SIL™ compliant with safety hardware features throughout. Documentation may require an NDA. PRO-SIL™ SafeTlib Safety Software is available.
AURIX™: Hardware Functional Safety Leadership

SAFETY is more than just a lockstep core. AURIX™ is designed with Pro-SIL™ (Safety Integrity Level) features throughout.
**AURIX™ Safety: Documentation**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FMEDA based on IEC61508 &amp; Safety Manual which contains IEC61508 data</td>
<td>Infineon will not provide the IEC61508 Safety Case based only on IEC61508 Safety Case has to be done at the system level by the customer</td>
<td>Can be handled by PDH partner and can be booked from customer directly at PDH partner Infineon partners are published on: <a href="http://www.infineon.com/pdh">www.infineon.com/pdh</a></td>
</tr>
</tbody>
</table>

How to get access to the documentation? (might be subject to NDA)

- Register on MyInfineon on [www.infineon.com](http://www.infineon.com)
- After registration please send your email address to [pdh-support@infineon.com](mailto:pdh-support@infineon.com) and access to the documentation will be granted
AURIX™: Security
**What is the AURIX™ Hardware Security Module (HSM)?**

- Trusted Execution Environment
- 32-bit ARM MCU separated by firewall

**AURIX™ HSM Use Cases**

- Key Distribution and Generation
- Secure Boot
- Secure on board communication

**AURIX™ HSM Crypto Accelerators**

- **On-chip Symmetric:** HW AES-128
- **Asymmetric:** implemented in SHE + SW

**AURIX™ HSM Target Applications**

- Secure **Authentication** and protection against misuse
- Secure **Communication** for billing and roaming

---

AURIX™ provides security by enabling secure on-board communications. HSM is available now on selected devices.
AURIX™: Extreme Temperature
AURIX™: Extreme Temperature Leadership

Extended Industrial Temp (SAK)
- Extended Ind Temp range
  - -40 to +125°C

Infineon HOT Package (SAL)
- Upgraded to
  - -40 to +150°C

Potential Application
- Anywhere where extreme temperatures are required
- Examples include UPS, PLC, Inverter, Robotics….

AURIX™ Industrial MCU family can offer HOT package, SAFETY and SECURITY across the entire product range.
AURIX™: Extensive Ecosysytem
AURIX™ Getting Started: Kits

Arduino Shield Buddy

- The Hitex TC275 ShieldBuddy follows the Arduino standard
- Compatible with 100’s of Arduino application shields
- Evaluation licenses available
- Ideal for getting started on a high end real time embedded industrial or automotive application as well as students and hobbyists.
- KIT_AURIX_TC275_ARD_SB

AURIX™ TFT

- Low cost board for early evaluation with limited access to signals
- Additional touchscreen display for convenient handling
- TFT board available for every silicon
- KIT_AURIX_TC2xx_TFT

AURIX™ TriBoard

- Full evaluation board for development to write and debug your 1st programs
- Includes Getting Started advice, free TriCore Entry Tool Chain, technical documentation, compiler and debugger.
- TriBoard available for every silicon
- KIT_AURIX_TC2xx_TRB

For more applications please check: www.Infineon.com/AURIX
AURIX™ Application Kits

To accelerate your Time to Market

Motor Control

› TC234 Application Kit with TFT Display incl. safety supply TLF35584
› Driving of a 3 Phase PMSM/BLCD (12Volt/max. 50Watt)
› BLDC Motor from Nanotec integrated
› Software available with flexible configuration
› KIT_AURIX_TC234_MOTORCTR

24GHz Radar

› Range-Doppler radar system with two Rx antennas and one Tx antenna based on AURIX™ TC264DA and BGT24ATR12
› allow implementation and testing of 24GHz radar applications as Doppler movement detectors, FSK or FMCW range/position measurement
› KIT_ATV_24GHZ_RADAR

Wireless Charging

› Supports all fast charge smartphones
› Unique power drive architecture minimizes EMI
› Improved accuracy Foreign Object Detection (FOD)
› KIT_AURIX_TC21_SC

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AURIX™ Getting Started: Free Tools

**AURIX™ Free Tool Chain**
- **Provider:** HighTec
- Eclipse based IDE
- GNU C compiler
- On-chip flash programming

**AURIX™ Free Flash Loader**
- **Provider:** Infineon
- Flash Loader SW
- Data Communication

**AURIX™ Configuration**
- **Provider:** Altium
- AURIX™ pin mapping
- Drivers files + OS
- Compiler and debugger

**Software**
- **Provider:** Infineon
- Mem Tool – on chip flash programming
- DAS (Device Access Server) tool interface

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