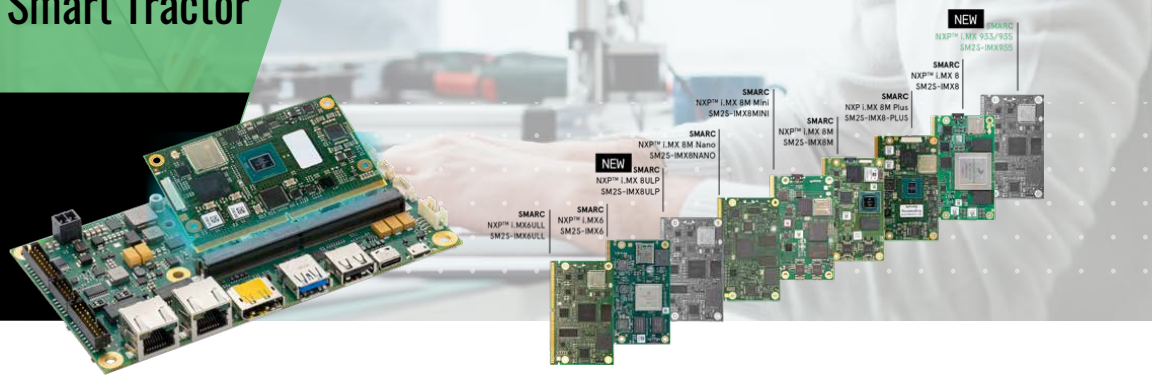
Software Technology Lab
Technology Demo – Smart Tractor

AVNET EMBEDDED

SMARC 2.1.1™ /SimpleSwitch

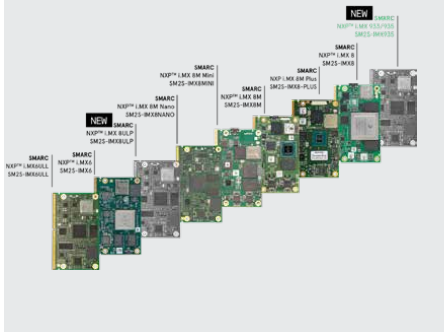


VIRTUAL MACHINE UI DEVELOPMENT

Don’t wait for your hardware delivery and start application development right away.

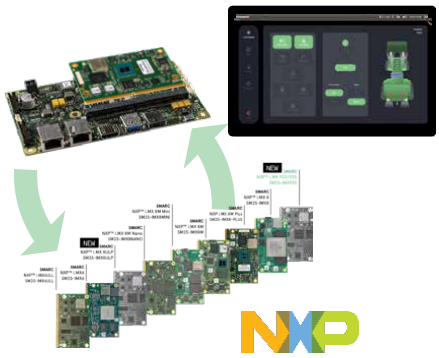
Providing the same environment as the physical hardware (Linux & hardware interfaces) allows a seamless deployment to your SMARC module after delivery.

INNOVATIVE HARDWARE ABSTRACTION



React fast and efficient to new market demands and change your SMARC modules easily.

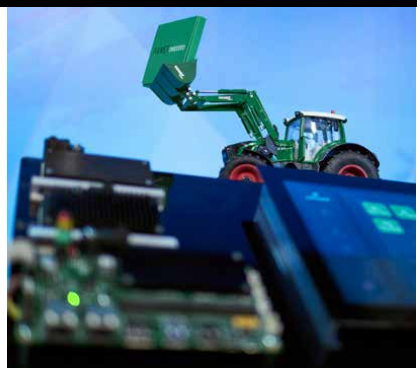
Adapt in performance, computing technology, and interfaces. Realize architecture adjustments due to end-of-lifetime or allocation without software application re-design.



INDUSTRIAL USE CASE

Show the advantages of technological innovation by bringing it to life in an embedded demo use case.

Design an innovative and use case specific UI application providing the best possible user experience.



2022-05 V1 Avnet Embedded

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AVNET EMBEDDED

SMARC module

MSC SM2S-MB-EP5

Embedded Platform SMARC® 2.X

/SIMPLEFLEX

146 x 80 mm

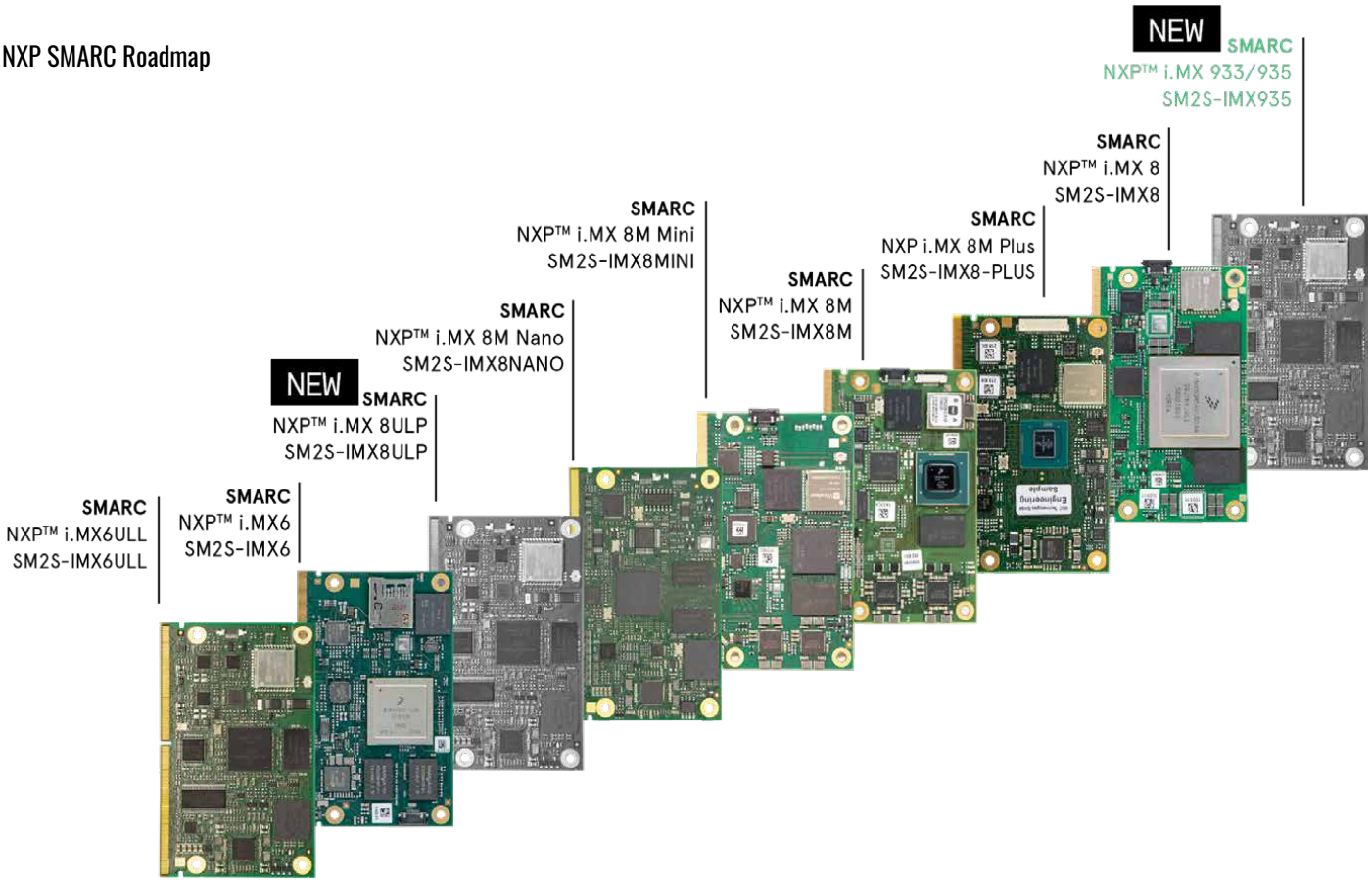
Arm

x86

NXP

APPLICATION-READY EMBEDDED PLATFORM

SimpleFlex is the intelligent combination of a standard Computer-On-Module with a standard carrier board. It combines the advantages of Standard SBC and Custom SBC by choosing the COM from a huge portfolio of CPU and memory configuration.

- Low-cost, flexible Platform for medium to high volume
- Up to 2x Gigabit Ethernet
- Mini PCI Express, M.2 key B, Micro-SD
- 2x USB 3.0, 3x USB 2.0, 1x USB 2.0 MicroAB Host/Client
- RS-232/RS-485/CAN (opt. galv. Isolated)
- DisplayPort, LVDS, MIPI-DSI, eDP, µHDMI
- USB Type-C™ (with DisplayPort)
- Audio, opt. with 2x 2.5W Stereo Amplifier
- MIPI-CSI, 12 GPIO, SPI, I²C
- WLAN / Bluetooth NFC with antenna (option)
- Input voltage 10VDC to 36VDC

NXP SMARC Roadmap