FORTEC
ELEKTRONIK AG

# Datasheet

## SMARC-sAMX6i

### Kontron

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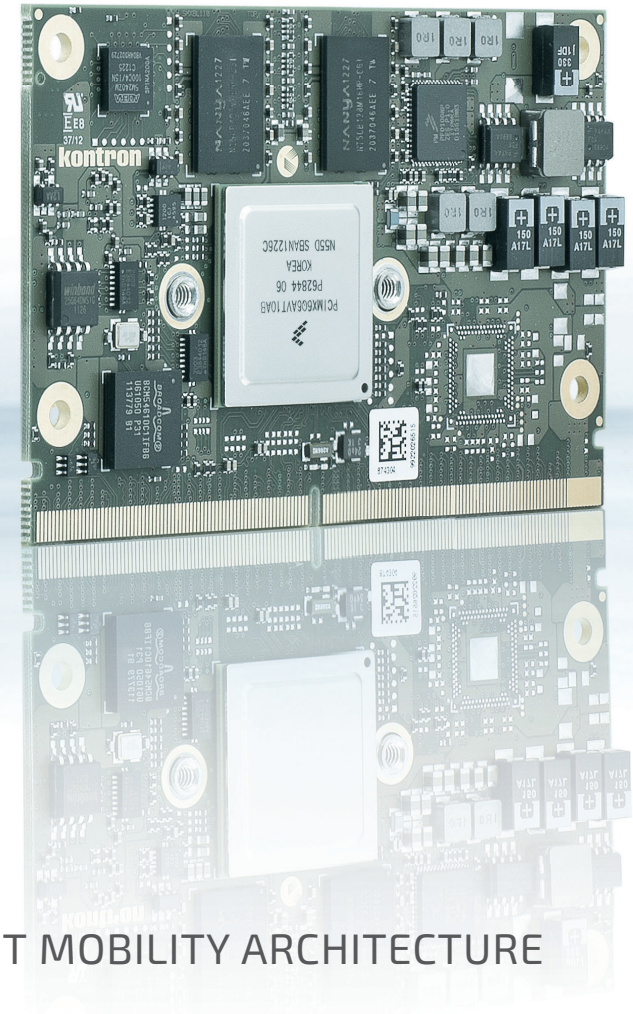
# SMARC-sAMX6i



SMARC

## SMARC - SMART MOBILITY ARCHITECTURE

- ultra low power COM based on Freescale™ i.MX6 family
- SoC scalable from Solo Core up to Quad Core
- commercial and industrial temperature versions

POSSIBILITIES START HERE kontron

## TECHNICAL INFORMATION

| | |
|---|---|
| PROCESSOR | Freescale i.MX 6<br>Solo, Dual and Quad Core ARM Cortex-A9<br>800 MHz, 1.0 Ghz, 1.2GHz |
| GRAPHICS | Dual Display<br>HD 1080p encode and decode<br>2D and 3D acceleration |
| MEMORY | DDR3 up to 2 GB, memory down |
| FLASH | Up to 64GB NAND/eMMC on-module (Custom Option) |
| ETHERNET | 10/100/1000 Mbit/sec |
| USB | 3x USB 2.0 port (one OTG) |
| DISPLAY | Parallel LCD 18/24 bit<br>LVDS Single Channel 18/24bit<br>HDMI |
| IMAGE CAPTURE INTERFACES | 2 Interfaces (PCAM, CSI) |
| SERIAL | 2x RX/TX (Ser1/3); 2x UART (Ser0/2) |
| ADDITIONAL INTERFACES | Up to 3 PCIe x1, MLB150, 12xGPIOs, SDIO, SATA eMMC, 2x SPI, 5x I2C, 2x I2S, SPDIF, WDT, 2x CAN,<br>Battery and System Management |
| SW SUPPORT | Windows WEC7<br>Android<br>Linux |
| POWER | tbd |
| THERMAL | Commercial temperature: 0°C to +60°C and Industrial temperature: -40°C to 85°C (800MHz versions) |
| POWER SUPPLY | 3V to 5.25V - Operates directly from single level Lithium Ion cells, or fixed 3.3V or 5V power supplies |
| COMPLIANCE | Form Factor: 82 x 50 mm<br>Compliance: SMARC (Smart Mobility Architecture) specification by SGET |

## ORDERING INFORMATION

| ARTICLE* | PART NO. | DESCRIPTION |
|---|---|---|
| SMARC-SAMX6I 0.8 512/4GB | 51003-0540-08-1 | SMARC with Freescale i.MX6 Solo, 800MHz single core, 512MB DRAM memory down, 4GB onboard Flash, industrial temperature, no SATA support |
| SMARC-SAMX6I 2X0.8 1/4GB | 51003-1040-08-2 | SMARC with Freescale i.MX6 Dual, 800MHz dual core, 1GB DRAM memory down, 4GB onboard Flash, industrial temperature, with SATA support |
| SMARC-SAMX6I 4X0.8 1/4GB | 51003-1040-08-4 | SMARC with Freescale i.MX6 Quad, 800MHz quad core, 1GB DRAM memory down, 4GB onboard Flash, industrial temperature, with SATA support |

*Please ask for more SoC or memory configurations.

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