Socionext’s Latest Camera Solution & T-Kernel

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Socionext Inc.
Our Application regions

- Smart Cities
- Networking
- Offices
- Medical/Healthcare
- Factory Automation
- Servers
- Home Entertainment
- Cameras
- Video Distribution
- Automotive
- Smart Cities
- Networking

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Leica Camera AG and Socionext Announce Extended Collaboration
Adtec Digital and Socionext to Build Solution for Optimized Video Processing
Socionext and Primax Collaborate on Advanced Imaging Solutions
Socionext's Hybrid Codec Powers Dwango's "Niconico Live" Streaming Service
Varjo and Socionext Collaborate on World's First Human-Eye Resolution VR/XR Headset
ORBI Prime, the First 360-degree Video Recording Eyewear, Powered by Socionext's Milbeaut Processor
Socionext and Gyrfalcon Will Offer New Low-Power Artificial Intelligence Systems
Socionext Collaborates with GoPro on GP1 Image Signal Processor, the Magic Behind HERO6 Black
Milbeaut® - Image Signal Processor (ISP)

- Face detection/Recognition
- Video-Local Tone Mapping
- Contrast/PDAF
- 3D Noise reduction
- Defect pixel correction
- Electric Image stabilization
- Super resolution
- Video-High dynamic range

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- 4Kp60, FHD(1080)p240 Support
- Socionext will provide optimal reference design for AR/VR/MR and high function industrial cameras etc.
Adapted Hybrid Operating System RTOS and Linux:

“Socionext SMP-RTOS/CA7 for Milbeaut®” real-time OS dedicated to Milbeaut®
developed based on the TRON Forum “SMP T-Kernel”

Features
- Application control that maximizes the features of OS is realized
- Flexible and easy load balancing can be configured by changing the
  number of CPU cores for each OS allocation
- With various functions, it can be applied to drones, action cameras,
  drive recorder
- “Socionext SMP-RTOS/CA7 for Milbeaut®” is royalty free

Technology
- Implementation
  - Multi-Core
  - Real-time OS
  - SMP/BMP
  - SMP T-Kernel
  - Linux

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