

SFINX

RAILWAY FAST PROTOTYPING PLATFORM



SFINX is a real-time embedded computer with a wide range of supported I/Os and peripherals running a SPHEREA's U-TEST® real-time core.

SFINX offers a cost-effective solution with significantly reduced lead time compared to the traditional bespoke design process used by OEMs. By bypassing the lengthy SPEC/RFI/RFQ process, it accelerates development while empowering your internal engineering team with deeper insights into the product's inner workings.

Applications:

System Health monitoring, 4G/LTE Communication gateway, GNSS Acquisition, Data Recording, Vibration and motion analysis, AI-based vision application, Control & Command

FEATURES

- >Xilinx® Zynq Ultrascale+™ MPSoC
- >ARM® quad-core Cortex™-A53 (64 bit, up to 1500 MHz)
- >Mali-400MP2 GPU
- >H.264 / H.265 Video Codec (optional)
- >Up to 4 GB DDR ECC SDRAM
- >64 MB QSPI flash
- >16 GB eMMC flash
- >2x Ethernet Gigabit port with IEEE1588 V2 HW support
- >DNN AI accelerator (optional)

BENEFITS

- >Ethernet for remote access and communication
- >Communication with actuators and sensors
- >Analog and discrete inputs
- >Dry contact outputs
- >GPRS/UMTS/LTE (optional) or WiFi transmitter (optional)
- >RS232/422/485 communication buses (optional)
- >Temperature and humidity sensor (optional)
- >Cybersecurity features (optional)
- >GNSS (optional)
- >IMU (optional)

TECHNICAL SPECIFICATIONS

POWER CONSUMPTION	50W
TEMPERATURE RANGE	-25°C / +70°C
ALTITUDE	Max Altitude 1400 m
HUMIDITY	0 - 90%
DC POWER INPUT	36-110V or PoE

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