DAVE Embedded Systems

SDV04 board
all-in-one solution

Dual use board with NXP i.MX6 Solo-Dual-Quad core or NXP i.MX6 UL Embedded SINGLE BOARD COMPUTER
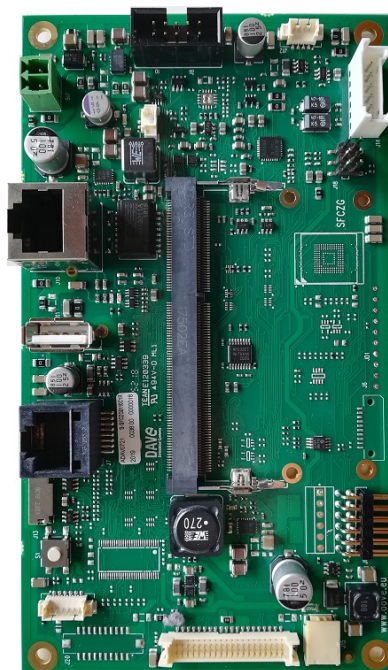
- **SOM:**
  - AXEL Lite based on NXP i.MX6 Solo-Dual-Quad-core Cortex-A9
  - AXEL ULite based on NXP i.MX6 UL Cortex-A7
- **STORAGE eMMC on board for all sizes**
- **SD card**
- **USB Host and Device**
- **SERIAL: RS232**
- **ETHERNET: 1x10/100Mbps**
- **DISPLAY: Single and dual LVDS interface**
- **TOUCH: capacitive**
- **AUDIO: Stereo OUT and MIC in**
- **DIMENSIONS: 85x156mm - Standard DIN (10modules)**
- **PSU: 12-24 VDC**
- **Designed for industries:**
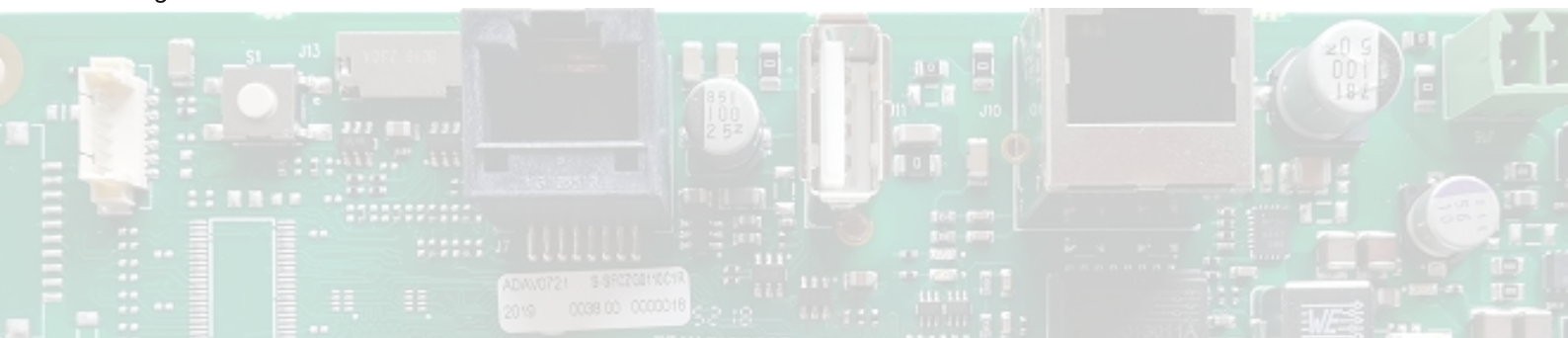 - HMIs, SMART VIDEO devices, Digital Signage Platforms

LOGIC LAB
IEC-61131 PLC runtime
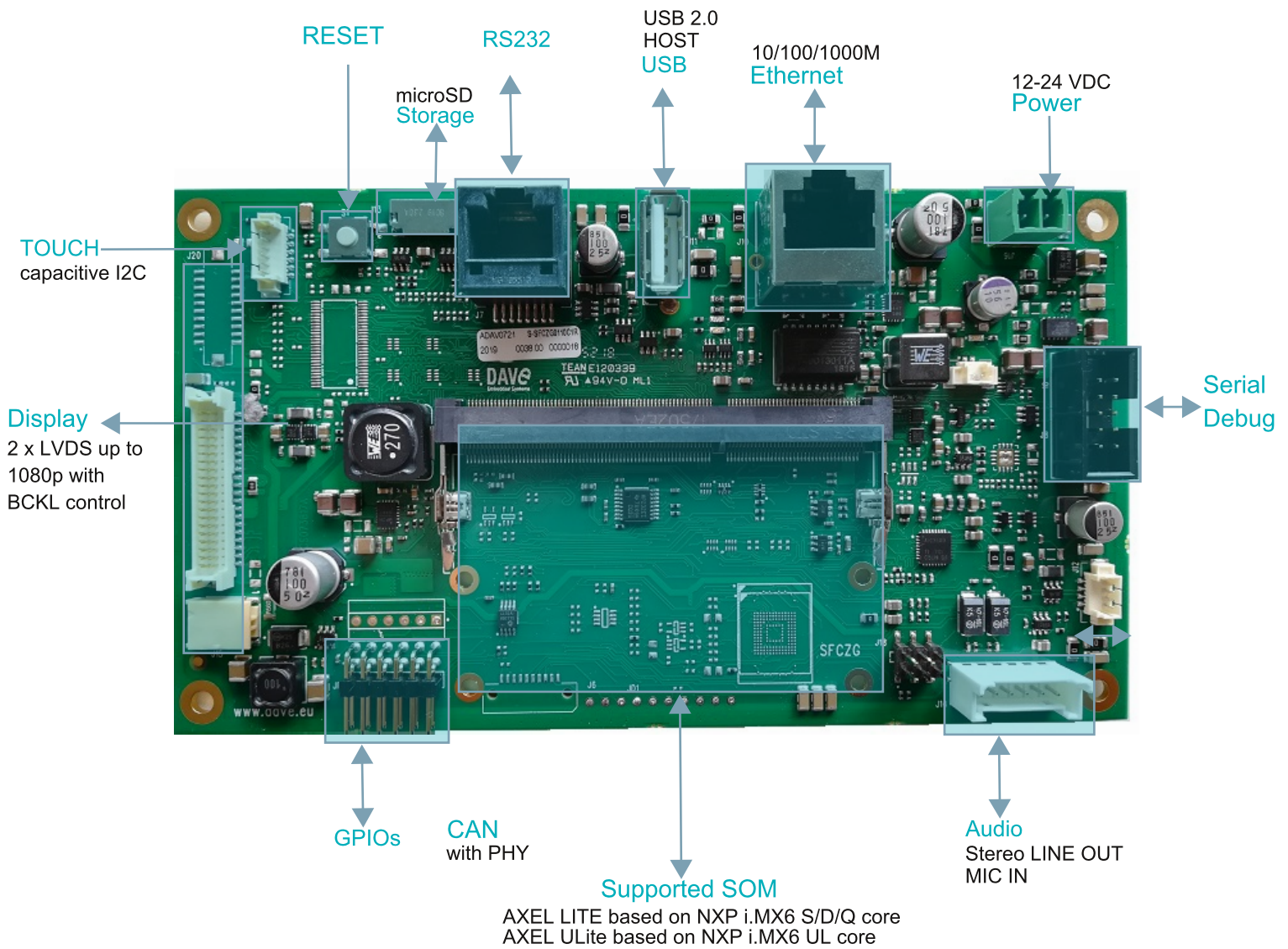
SDV04 board is part of DAVE Embedded Systems'portfolio of Single Board Computer solutions it is based on AXEL Lite and AXEL ULite System On Module based on NXP's System On Chip. SDV04 board Single Board Computer has a 10 Modules DIN Bar and can be configured in order to be boxed with a finished product shape. This Single Board Computed is designed for long-term availability within the industrial qualification. EU or other countries' official certification is an optional for this Single Board Computer. The SDV04 board Single Board Computer has a SDV04 board. This Single Board Computer has a wide range of peripherals available: Ethernet 10/100, SD card, USB Host and device, Serial connection RS232, Single and Dual LVDS display ports and audio and microphone input . The Single Board Computer hosts onboard the AXEL Lite or AXEL ULite System On modules which integrate up to 2GB RAM size and an eMMC with large storage size.
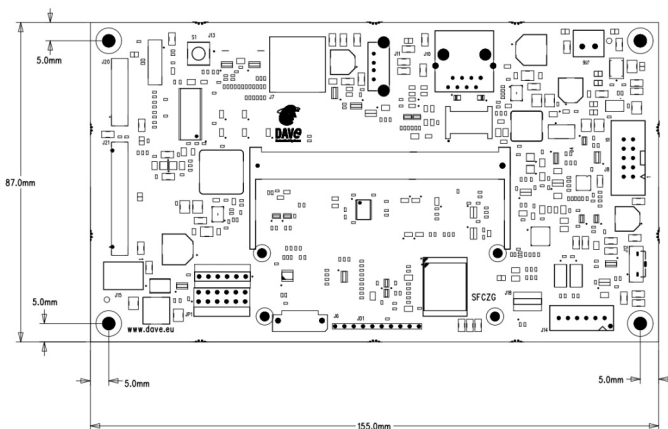
The SDV04 Single Board Computer has a number of expansion connectors useful also as an evaluation kit for the AXEL Lite and AXEL ULite System On module. The SDV04 board Single Board Computer is provided within a Software Development Kit which enable customers to get complete control of the board. The Software Development Kit is called DESK DAVE Embedded Software Kit and it is based on the NXP official Software Development Kits. DESK provides access to the source code of both the bootloader and the Linux Kernel. Due to this is a Single Board Computer, a complete distro is available for this solution avoiding any time waste for customers who trust in our SW development at BSP level. The distro includes a Root File System which includes the most important sw packages available in the market (such as QT, Python,)

RESET

RS232

USB 2.0 HOST
USB

10/100/1000M
Ethernet

12-24 VDC
Power

microSD
Storage

TOUCH
capacitive I2C

Serial
Debug

Display
2 x LVDS up to
1080p with
BCKL control

GPIOs

CAN
with PHY

Audio
Stereo LINE OUT
MIC IN

Supported SOM
AXEL LITE based on NXP i.MX6 S/D/Q core
AXEL ULite based on NXP i.MX6 UL core

Mechanical Size

5.0mm

87.0mm

5.0mm

5.0mm

5.0mm

155.0mm

www.dave.eu

SFCZG

- CE mark (Industrial grade) ready to use solution
- Ready to use for integration behind a display
- DAVE Embedded Systems is available for design the enclosure

Product Code Configurator

Please contact our sales office for define a P/N and get a quote

DAVe
Embedded Systems

DBR2106R0