NESO LT core
ARM9 Single-Board-Computer

Online support on www.garz-fricke.com
TECHNICAL SPECIFICATION

NESO LT Single board computer

Freescale CPU

- Class: ARM® Cortex-A15™ i.MX257
- Type/Clock: 400 MHz
- RTC: Depending on ambient temperature, Standard time’s deviation: +/- 30 ppm at 25°C

Memory

- NAND Flash: 256 MByte NAND Flash
- RAM: Standard 128 MByte DDR-SDRAM
- Optional: 256 MByte DDR-SDRAM
- Micro SD Card Slot: 4 bit MicroSD (HC)

Operating Systems

- Supported OS: Windows® Embedded CE 6.0 R3, Linux

Communication Interfaces

- Network: 1x 10/100 MBit/s Ethernet
- Serial: 1x RS-232 [Rx/Tx/RTS/CTS], RS-485 [Option]
- Synchronous Serial Interfaces: SPI [10 MBit/s] up to 12 chip selects, I²C Matrix keypad up to 8 x 8
- USB: 1x 12 Mbit/s Full-Speed Host, 1x 480 Mbit/s High-Speed OTG
- CAN Fieldbus: 1x CAN (ISO/DIS 11898)
- Digital I/O: 1x Digital Out (0.7 A)
- Speaker output: 1x speaker [connector], 1W RMS [8Ω]

Display and Touch

- Display Interface: TTL up to 24 bit (RGB)
- Touch Interface: 4-wire analog resistive

Device Dimensions

- W x H x D [mm]: 113.0 x 16.0 x 47.0
- Weight [g]: 51

Power Supply

- Supply [V DC]: Nom. 12, max. 9 ~ 16
- Nom. 24, max. 9 ~ 30: ask factory
- Consumption [W]: 1.2

Typical Environmental Conditions

- Storage Temp. [°C]: -20 to +70
- Operating Temp. [°C]: 0 to +60
- Humidity [%RH]: 5 to 90

NESO LT M core

NESO LT is available in a minor assembled edition, indicated by a “M”. These versions are dedicated for very cost sensitive projects, where Ethernet, USB and RS-232 are sufficient.