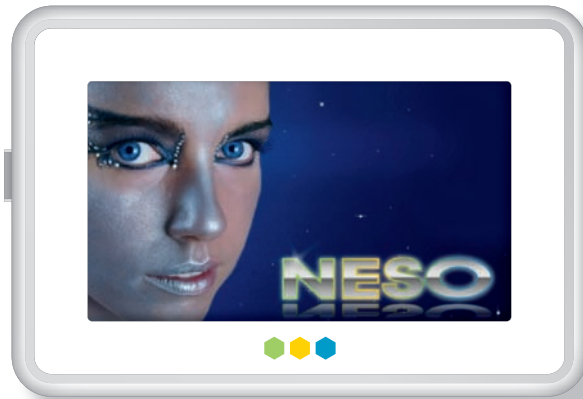


NESO 4.3 LT boxed






Compact Embedded Systems



NESO 4.3 LT boxed with Autoflex EB Polyester front



Cost-effective platforms for

-  Human-Machine-Interfaces
-  Renewable energy technology
-  Medical and laboratory equipment
-  Professional gastronomy
-  Vending machine











NESO LT devices are derivatives of the NESO Series, equipped with an i.MX25 CPU instead of an i.MX27 processor. The CPU is also based on the 400 MHz ARM926EJ-S™ Core. The PCB has been re-designed as mini system with very compact dimensions.

The system is equipped with the most common standard connectors and covers a wide range of applications. It is designed for Microsoft Windows Embedded CE and Linux, too. For both operating systems, we offer various additional services and optimized ROM images. This makes NESO the most economic and efficient platform where costs do matter.

To ensure a fast time-to-market development, we have prepared several Starter Kits. These kits are ready-to-run and contain all needed components.

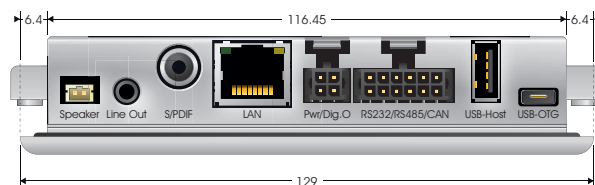
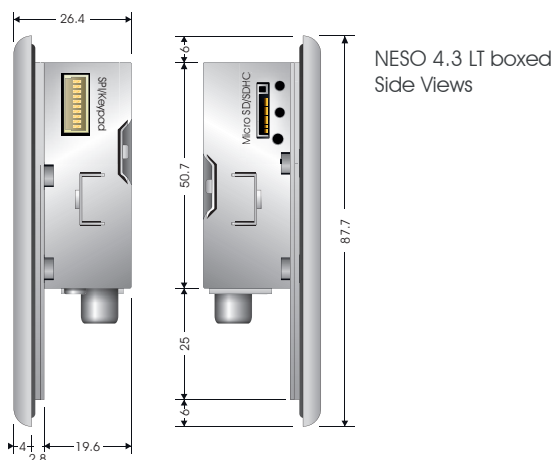
Key Features

-  Freescale i.MX25 400 MHz ARM926EJ-S™ core
-  128 MB Mobile DDR-RAM / 256 MB NAND-Flash
-  109 mm (4.3") widescreen TFT touch display (480 x 272 pixels)
-  Open frame or boxed version
-  MicroSD card interface
-  Ethernet 100 Mbit/s
-  Hi-Speed USB 2.0 Host and OTG
-  1x RS-232, 1x RS-485 or CAN, SPI / I²C / keypad multiplexed
-  Windows Embedded CE and Linux support

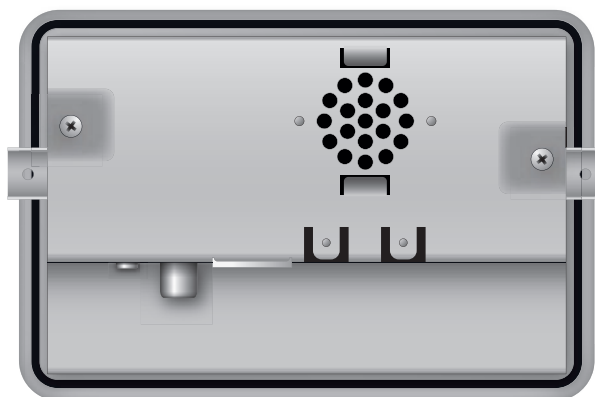
CPU	
Type	Freescle ARM926EJ-S™ i.MX25
Clock/Frequency	400 MHz
Memory	
RAM	128 MB DDR-RAM (optional 256 MB)
ROM	256 MB NAND-Flash
Storage Card Slot	4 bit MicroSD(HC) up to 2 GB
Software ¹	
Supported OS	Windows CE, Linux
Interfaces	
Network	10/100 MBit/s Ethernet
Audio External connectors	16 bit 48 kHz, 1x S/PDIF (RCA jack), 1x line-out (3.5 mm jack), 1x speaker 1 Watt RMS (8Ω), 1x micro, 1x line-in
Internal connectors	1x RS232 (Rx/Tx/RTS/CTS) 1x RS485 (half/full-duplex) or CAN
Asynchronous Serial Interfaces	SPI (10 MBit/s) up to 12 chip selects, I ² C
Synchronous Serial Interface	Up to 8 x 8 (multiplexed with SPI)
Matrix Keypad	1x USB 2.0 Hi-Speed Host 1x USB 2.0 Hi-Speed OTG
USB	1x Digital Out (0.7 A)
Digital I/O	

Power Supply	
Supply	9 ~ 42 VDC
Consumption	Typ. 330 mA @ 12 VDC
Environmental Conditions	
Storage Temp.	-20 ~ +70° C
Operating Temp.	0° ~ +60° C
Relative Humidity	95 % (non condensating)
Touch Display	
Orientation	Horizontal/vertical
Colors	16 bit (65,536 colours)
Size (mm)	109
Screen Format	Wide (16:9)
Width x Height (px)	480 x 272
Luminance	250 cd/m ²
Active Area (mm)	95 x 53.8
Touch screen	4-wire analogue resistive
Device Dimensions	
W x H x D (mm)	129 x 87.7 x 26.4
Weight (g)	500
Options	
Connectors	RS-485 or CAN (MDB upon request)
Displays	MVA, wide viewing angle displays
Touch screen	Projected capacitive touch

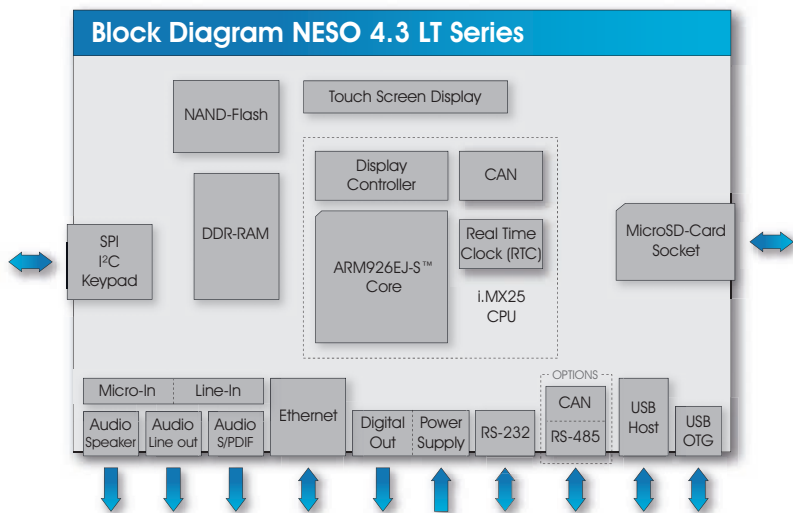
¹ For current drivers and software, please check our website at: http://www.garz-fricke.com/neso43-solution_en.html



NESO 4.3 LT boxed Connectors



Housing in stainless steel 0,8 mm



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