



### Features:

- ARM926EJ-S 454 MHZ CPU
- Small size (only 51\*30 mm)
- Low Cost (from 21.5 USD)
- Industrial Temperature Range
- Low Power (typ. 1W)
- i.MX28 is included in Freescale's product longevity program, with assured supply for a minimum of 15 years after launch

### Description

EV-iMX287-NANO **Module** based on i.MX28 - solution for systems requiring a large number of interfaces, small power consumption and ease of use. ARM926EJ-S core with maximum frequency of 454 Mhz, fast DDR2 memory, reliable SLC NAND Flash memory devices to allow you to create applications in the industrial, household, automotive and medical fields

### Target Applications:

- Interfaces Converter
- Terminals
- Vending machine
- Industrial Control
- Building Automation
- Energy Management Systems
- HVAC

### Ordering Information:

**EV-iMX287-NANO-A1**  
(i.MX287, SLC NAND Flash 256MB,  
DDR2 128MB, -40...+85C)

**EV-iMX287-NANO-A2**  
(i.MX280, SLC NAND Flash 256MB,  
DDR2 128MB, -40...+85C)

### Contact:

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### Technical Description:

#### CPU

i.MX287 or i.MX283  
Maximum Clock 454 MHZ

#### Memory

up to 256 MB DDR2  
up to 512 MB SLC NAND Flash  
64 Mb SPI Flash optional)

#### Interfaces

up to 2 Ethernet 10/100 Mbit (L2 Switch)  
up to 2 CAN 2.0B  
up to 5 UART  
1 USB 2.0 HS Host Interface  
1 USB 2.0 HS Host/Device Interface  
1 SD/MMC  
up to 2 I2C  
1 SPI

#### Power Supply

5V

#### Operating Temperature

0C...+85C standart  
-40C...+85C industrial

#### Connection

Standart 52-pin mini PCE-Express connector

#### OS Support

Linux 3.9.11

\*May be modified to customer requirements

\*Other i.MX28 Family CPU can be installed on request

\*Other memory size can be installed