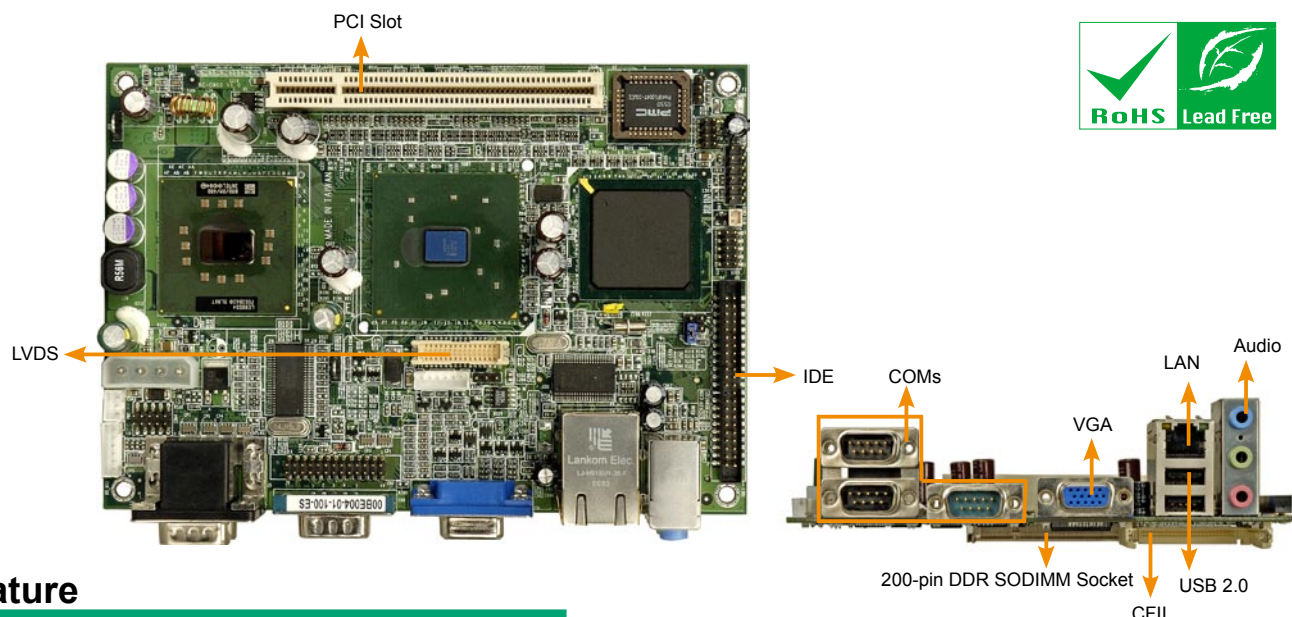


Enano-8523T

All-in-One ULV Intel® Celeron® M EPIC
Solution with onboard COM Ports & PCI slot

ULV Intel® Celeron® M 800 MHz zero cache with COM ports,
USB2.0 and TPM security function support.



Feature

1. Fanless EPIC embedded board
2. ULV Intel® Celeron® M 800MHz zero cache processor
3. TPM (Trusted Platform Module) hardware security function supported
4. DDR 266MHz support up to 1GB
5. Support dual 18-bit LVDS independent display and CRT
6. 4 x COM ports, IDE, CFII, LAN, and 4 x USB2.0

Specification

DDR266



◆ CPU

ULV Intel® Celeron® M 800MHz Zero cache processor

◆ System Chipset

Intel® 852GM + ICH4

◆ BIOS

AMI BIOS Label

◆ System Memory

1 x 200-pin DDR 266MHz SO-DIMM SDRAM up to 1GB

◆ Ethernet

10/100Base-T Intel® 82562ET

◆ I/O

- 4 x USB 2.0
- 1 x LPT
- 1 x CFII
- 4 x RS-232
- 1 x PS/2 KB/MS
- 1 x IDE

◆ Super I/O

ITE IT8712F-A

◆ Audio

AC'97 Codec Realtek ALC655

◆ Display

CRT integrated in Intel® 852GM

LVDS

Dual 18-bit LCD integrated in Intel® 852GM

Support independent dual display

◆ Watchdog Timer

Software programmable supports 1-255 sec. system reset

◆ Power Supply

+5V±5%, 12V±5%, 5VSB ATX power support

◆ Power Consumption

+5V@3.66A; +12V@20mA

(ULV Intel® Celeron® M 800 zero Cache with DDR 266MHz 256MB RAM)

◆ Temperature

Operation: 0 ~ 60° C (32 ~ 140° F)

◆ Humidity

Operation: 5% ~ 95%, non-condensing

◆ Dimension

115 mm x 165 mm

◆ Weight

GW: 1100g; NW: 950g

Why to use a TPM v1.2?

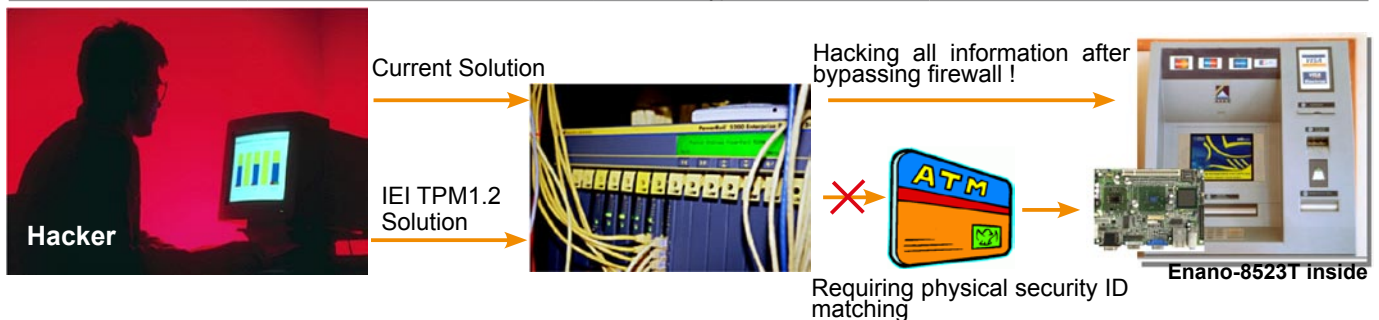
NANO-8523T provides the hardware security with the most cost effective solution to build up the best value system for financial banking, healthcare environment or military applications. Hackers will never get data though network, all operations will keep records for tracking.

I. The advantage of hardware security

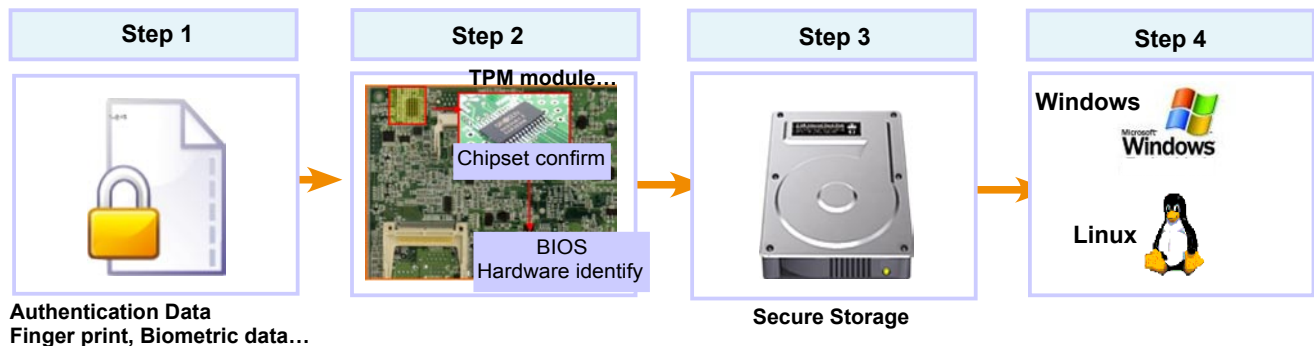
Benefits

- No ways for hackers to perform a remote transaction.
- Unless, hacker is physically inside the bank.

Threats	Current Solutions	Weaknesses	IEI TPM v1.2 Solutions
	Data Encryption (EFS, VPN, Encrypted email, etc.)	Encryption keys stored on hard disk are susceptible to tampering	Protected storage of keys through hardware
Unauthorized Access	<ul style="list-style-type: none"> - Username/ Password - Biometrics & External tokens for user authentication - Windows network logon 	<ul style="list-style-type: none"> - Subject to dictionary attacks - Biometrics can be spoofed - Authentication credentials not bound to platform - Can be bypassed 	<ul style="list-style-type: none"> - Protection of authentication credentials by binding them to platform - Hardware protection of authentication data



II. NANO-8523T hardware security solution / boot of the trusted OS

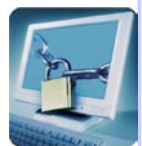


Working Concepts

- During boot the TPM v1.2 gathers measurements about the running environment
- To measure == perform hash, log and extend appropriate register
- What can be measured?
BIOS, Loader, Trusted OS, Applications
- Collected PCRs values are later used for Sealed Storage & Attestation
- TPM v1.2 only measures the running environment
- Remote entity can decide whether to trust the running platform based on the PCR values
- Secrets are sealed to a particular state of the platform using these measurements

Benefit

Only verified authentication data can activate system ! The most secure system control now!



Packing List

1 x Enano-8523 single board computer	1 x Mini jumper pack
1 x PS/2 KB/MS cable (P/N: 32000-023800-RS)	1 x Utility CD
1 x IDE flat cable 44p/44p (P/N: 32200-000009-RS)	1 x QIG (quick installation guide)

Ordering Information

Part No.	Description
Enano-8523-800Z-R10	EPIC on board ULV Intel® Celeron® M 800MHz with zero cache CPU with LCD/CRT VGA, LAN, USB2.0, Audio, and 4 COM ports
Enano-8523T-800Z-R10	EPIC on board ULV Intel® Celeron® M 800MHz with zero cache CPU with LCD/CRT VGA, LAN, USB2.0, Audio, 4 COM ports and TPM v1.2 function
32200-015100-RS	LPT Cable
32100-052100-RS	ATX Power cable



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