

DIGITAL TECHNOLOGIES FOR A BETTER WORLD

NanoPC

HPC



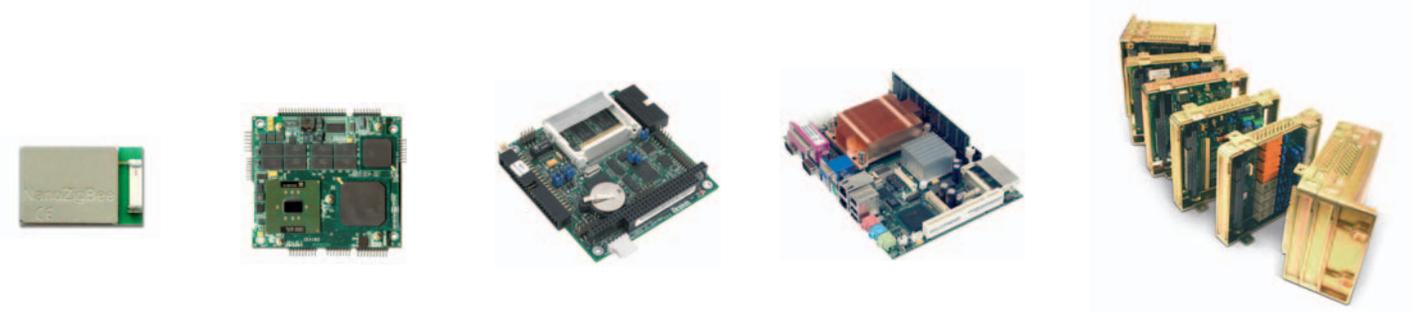
EUROTECH
G R O U P





A unique combination of miniaturization & processing power

Nano PC



MEDICAL INSTRUMENTATION > BIOMETRICS > HOME & BUILDING AUTOMATION > SCIENTIFIC INSTRUMENTATION > INTELLIGENT TRANSPORTATION > SURVEILLANCE

The Eurotech Group

Eurotech started its activity in 1992 with the goal of playing a relevant role in the embedded computing market at first, and now, as a group of companies with a strong degree of complementarity, in the new market of “pervasive computation”.

With headquarters in Italy and facilities in Europe, the USA and China, Eurotech is a leading group with the capability to develop state-of-the-art digital technologies to make everyday life better, safer and more comfortable, today and tomorrow.

The strategic role of the Group is to identify and penetrate new and

emerging markets, breaking traditional boundaries through innovation. With this idea in mind, Eurotech focused its R&D activities on the high-growth market of Pervasive Computation: high performance computers, embedded computers, network computers, wearable computers and smart sensors.

Pervasive Computation and GRID

In the near future, the computer as we know it will disappear. It will be hidden in everyday objects and in the environment, to improve our sensorial and perceptive abilities.

Pervasive computing (also known as “ubiquitous computing”) is about distributed computing devices, such as mobile computers, wearable





Supercomputers and PC clusters: beyond the limits of knowledge

HPC



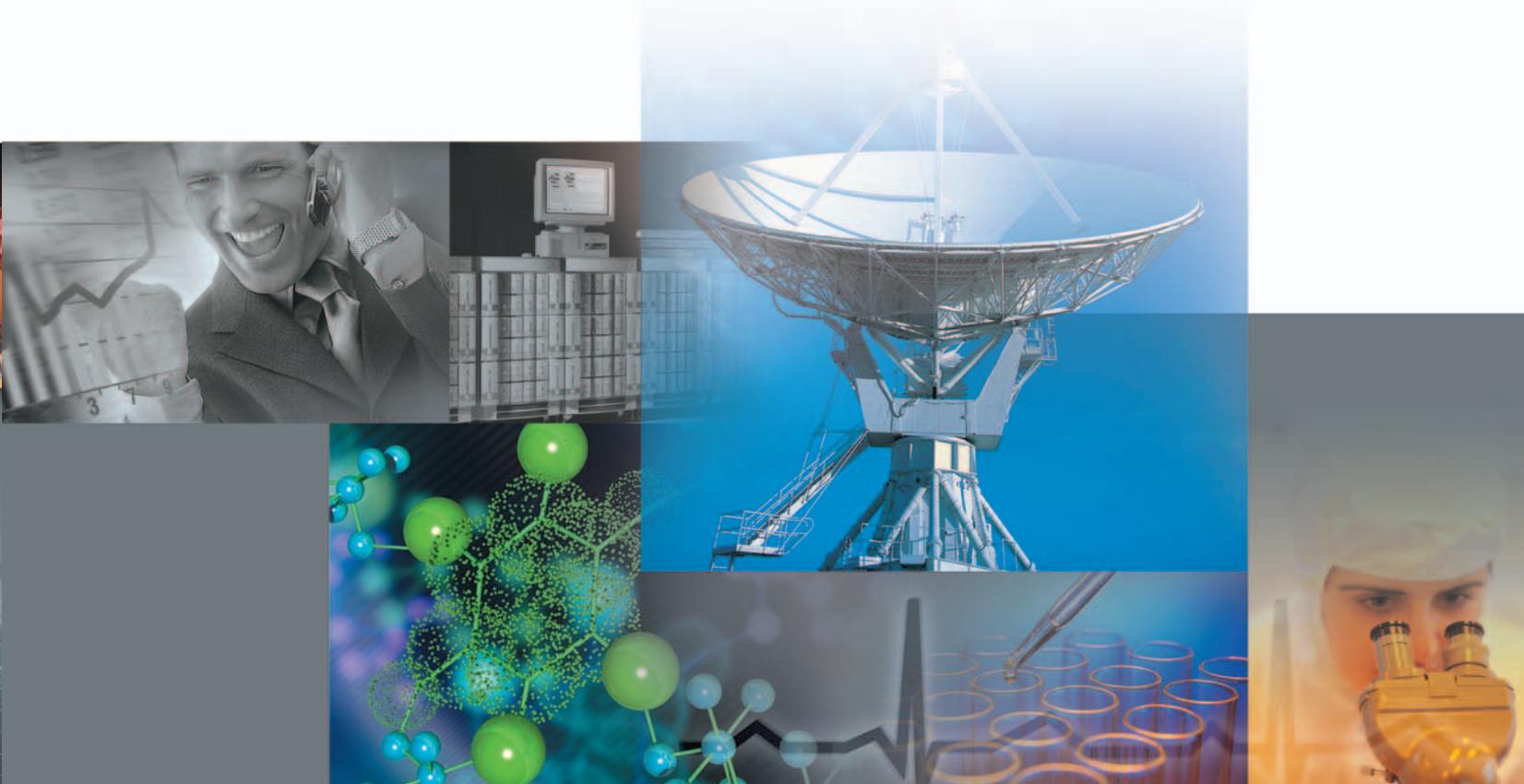
> HIGH ENERGY AND NUCLEAR PHYSICS > PHARMACEUTICAL RESEARCH > GEOLOGICAL MODELLING > IMAGING & DATA MINING > NEUROSCIENCES > FINANCIAL APPLICATIONS

HPC platforms

The "core" competence acquired by Eurotech in the miniaturization of computers is at the base of the development of High Performance Computers, machines not only designed to provide superior number-crunching capabilities, but also to assure extreme reliability and security. HPCs will be the drivers of GRID evolution and of future scientific research. From biotechnologies to molecular physics to nanotechnologies, all the emerging fields rely on impressive computational resources: this is why supercomputers and massive PC clusters are the key. The experience we have acquired in miniaturization, backed by our know-how in the field of parallel computing and high-speed interconnections, enables us to implement

state-of-the-art HPC solutions.

Our offer of dedicated supercomputers and standard high-performance computers is one of the most powerful and comprehensive today available. Capable of delivering a computational power in the range of tens of teraflops, our solutions will help scientists and researchers to enrich and broaden human knowledge well beyond present limitations.





Innovative technologies for high demanding computers



AND SECURITY > DEFENCE & AEROSPACE > TRAFFIC CONTROL & MANAGEMENT > ENERGY CONTROL & DISTRIBUTION > MACHINE AND PLANT AUTOMATION > DATA COLLECTION

computers and sensors, embedded in the physical world.

In our vision, Pervasive Computing includes intelligent devices (we refer to them as “nanoPCs”), digital communication infrastructures and distributed High Performance Computers (we refer to them as HPCs). Intelligent devices, high-speed connections and HPCs create together the pervasive computing environment that supports a new class of applications. The term “GRID”, coined in the mid 1990s, indicates the above-described distributed computing infrastructure, which had been studied at first for advanced science and engineering.

In the near future, the GRID concept will be extended to many other human activities. The vision is that tomorrow computing power will be available to us just as electric power is today.

GRID technology is the perfect starting point for the creation and

development of new pervasive & ubiquitous computing scenarios.

nanoPC platforms

The digital revolution has led to the development of miniaturized computers that enable intelligence and connectivity to be embedded into a broad range of computing devices, machines and systems.

The Eurotech Group offers a complete range of these modular, highly reliable embedded PC solutions.

We provide not only the hardware building blocks, but a complete solution that includes hardware, firmware, and software.

Our products offer a competitive advantage to a broad range of traditional and emerging industry sectors.



Industrial PC automation and human machine interface

The edge of the network in your hands



Nano PC

> HUMAN-TO-MACHINE INTERFACES > NETWORK SECURITY > INTERNET TRAFFIC BILLING & ACCOUNTING > QUALITY OF SERVICE > BANDWIDTH MANAGEMENT

These miniaturized computing platforms are present in our specialized PC offer (which includes industrial PCs for automation and for HMI) and in our line of Embedded PCs designed to operate in extreme environments.

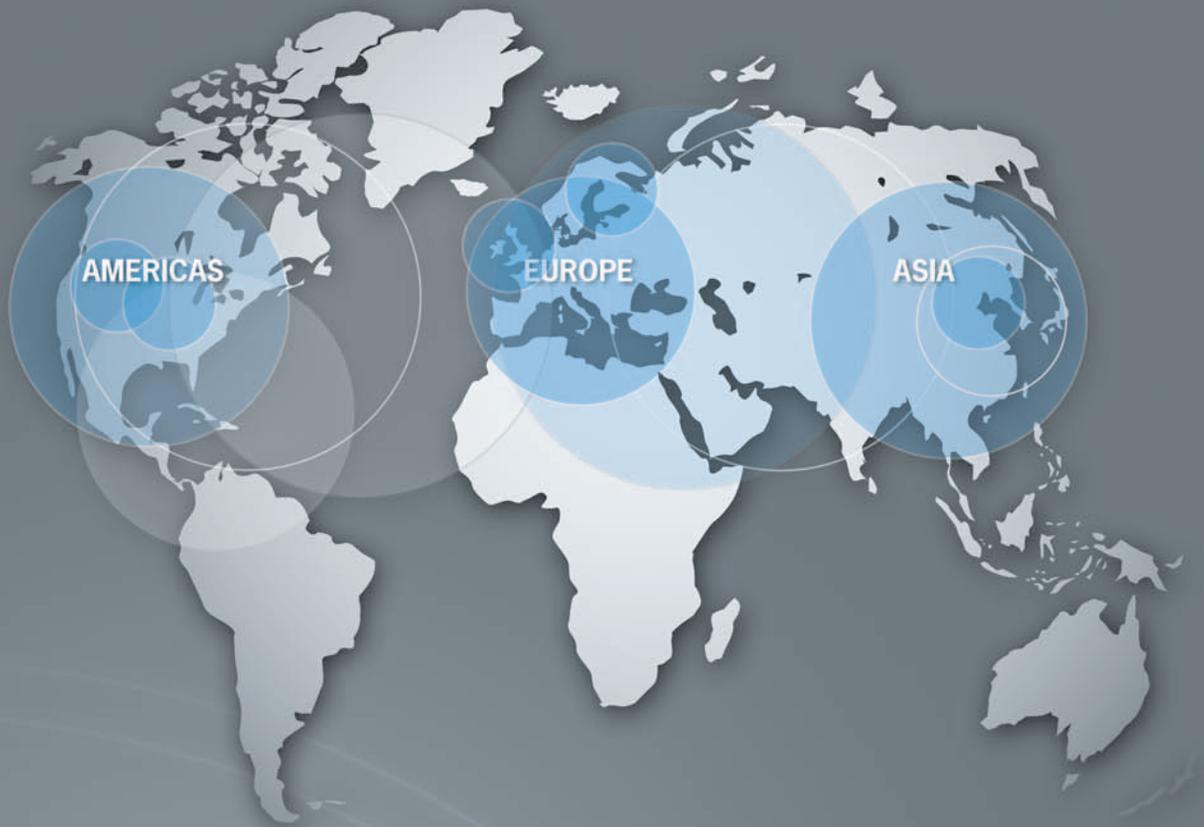
Our Group's competence in the field of miniaturized PCs (so-called nanoPCs) has been lately enriched by a paradigm shift, from mobile "embedded" computers to wearable computers, which assures the flexibility and scalability required to capture new market opportunities.

The original combination of vision technologies and processing technologies has led to the creation of intelligent sensors and miniaturized cameras, a brand-new set of "digital sentinels" that will contribute to the safety and comfort of everyday life, and will open the

door to new and exciting computing applications that were impossible to imagine until now.

The WAN (Wide Area Network) is becoming a vital link for present and future communication infrastructures, a digital highway that will change the way we live and work, especially considering the evolution of the GRID. We have honed specific expertise in the design of network appliances, that can guarantee the bandwidth, quality of service and security features needed to assure seamless transmission of information for fixed and mobile applications.





EUROTECH
GROUP

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