QUARTZ MATRIX®

THE LEAP FOR DIGITAL TRANSFORMATION

NORSIT – The Technology of Your Ideas
IT, Cloud & Data Centers Unit

SENYS – Industry 4.0 Energy Solutions
Industrial Energy Efficiency Unit

ONDETECT - Networking. Fire. Security
Fire and Electronic Security Unit

ACCED - A Child Today, a Creator Tomorrow
Digital Education and Interactive Learning Unit

SLA GO – Zero Downtime
Maintenance and Service Unit

Research & Development
Software and Solutions Developement Unit

TOTAL
TECHNOLOGICAL
CONTROL

INDUSTRIAL
IOT

AI
TECHNOLOGY

CONTINUOUS
PRODUCTION

STATUS ACTIVE
MODE SEARCH

SAVING DATA TO CACHE

Airports

Commercial
Centers

Medical
Institutions

Educational
Institutions

Public
Administration

Industrial
Sector

CronoLogistik

DigiTrafic

PRISMA MATRIX

KMR
Keep the Machine Running

Prolang

ACCED

enef

QMART

Energy Efficiency

Advanced Security

THE LEAP FOR DIGITAL TRANSFORMATION

For over 26 years Quartz Matrix has focused on technology and engineering in Business-to-Business segment through solutions and services that keep up with the evolution of technology and innovatively respond to current challenges.

The vision of Quartz Matrix units always aims for the future. We have been deploying innovative projects and solutions in advanced technology fields for 10 years now, standing out as IoT and Industry 4.0 pioneers in Romania.

The present is digital and we constantly invest in research and development of first use operative solutions which streamline processes in any field of activity. Our own solutions of monitoring energy consumption, communication through digitization or distance learning have led to more effective daily processes by reducing consumption, simplified information transfer and universal access to education.
We always positively respond to technological challenges. We have modern solutions dedicated to medical units, schools and universities, factories, public institutions and office companies that ensure safe carrying out of the activity, more qualitative products and services and permanent access to information.

Quartz Matrix team is ready to provide proper solutions that facilitate your leap for digital transformation.

"We constantly develop high quality services and offer complete and innovative solutions, based on the latest technologies, so that all our clients to always achieve their goals."

Mihai SUCHAR,
General Manager
Quartz Matrix

BUSINESS UNITS

NORSIT
SUPPORT SERVICES

IT, Cloud & Data
Centers

www.norsit.ro

ONDETECT

Fire and Electronic
Security

www.quartzmatrix.ro/

SENYS

Industrial Energy
Eff iciency

www.senys.ro

ACCED | COPILUL DE AZI, CREATORUL DE MÂINE

Digital Education and
Interactive Learning

www.nextclass.ro

SLA GO
Zero întreruperi

Maintenance and
Service

www.quartzmatrix.ro/

Research & Development

Soft ware and Solutions
Developement

www.quartzmatrix.ro/

OUR SOLUTIONS

enef

Energy Consumption
Monitoring System

www.senys.ro/

KMR
Keep the Machine Running

Maintenance
Management System

www.mykmr.ro

PRISMA MATRIX

HR Processes
Digitization

www.prismamatrix.ro

DigiTrafic
SISTEM PENTRU ANALIZA FLUXULUI DE PERSOANE

People Counter
System

www.digitrafic.ro

Prolang

Foreign Languages
Digital Lab

www.prolang.ro

QMART

All-Inclusive B2B
One-Stop Shop

www.qmart.ro

NORSIT
SUPPORT SERVICES

For you to have no concern than focusing on your business goals, the IT unit of Quartz Matrix - NORSIT – offers a complete suite of IT solutions and services, from design and cyber security consultancy to deployment, administration and maintenance of IT systems.

Because we are aware that the value and cost of an IT solution throughout its useful life represents much more than the initial acquisition of hardware and software, we always recommend a homogeneous approach of the solution's life cycle management, through which we offer the possibility of signing an IT solution management agreement. Under this contract, Quartz Matrix team can provide various IT services: hardware and software development and engineering, support, maintenance and administration, updates and configurations of the provided solutions, monitoring, backup & restore.

www.norsit.ro

Certifications

- Certified Cisco Meraki Networking Associate: CMNA
- Cisco Certified Network Professional Routing and Switching
- Acronis Certified Engineer
- HPE Technical Professional
- Veeam Certified Engineer
- Fortinet Security Professional
- Barracuda Certified Engineer
- Bitdefender Certified Technical Specialist
- VMware Certified Professional
- Check Point Tehnical – CloudGuard SaaS (CGSA), Maestro (CPMSIT), Advanced Threats (CPCS)
- Lenovo Certified Data Center Technical Professional

Partners

Cisco Partner Premier Certified · DELL Technologies GOLD PARTNER · HP Partner First Silver · Solution Provider · Bitdefender GOLD PARTNER · Check Point SOFTWARE TECHNOLOGIES LTD · FORTINET SILVER PARTNER · Barracuda · VMware Partner Connect · veeAM PROPARTNER Gold Reseller · Acronis ACRONIS AUTHORIZED PARTNER · Business Partner IBM · poly · kontron AUTHORIZED PARTNER

QUARTZ MATRIX

The Technology of Your Ideas

Solutions

Communications Networks
- Wireless communications
- Structured cabling
- Industrial networks
- Videoconference

Security
- SSL certificates
- Firewall, antivirus, antimalware, antispam
- Website protection & security

Cloud
- Hosting
- Server collocation

Virtualization

Backup and Restore
- VEEAM
- ACRONIS

Services

IT Outsourcing
- IT support
- IT network administration
- Data Center support
- Managed E-mail

Cloud
- Cloud Servers
- Cloud Backup
- Office 365 Business migration

IT Consultancy
- Virtualization
- Designing
- IT audit
- IT infrastructure

Cyber Security
- Security audit
- Cyber security
- Disaster Recovery
- Backup and Restore

"Choosing Quartz Matrix for the building of the whole Data Center infrastructure and the technical room was a good pick regarding our necessities. Quartz Matrix team of experts managed to meet our expectations regarding the execution of the work in the agreed time frame and the quality we requested.

The proficiency in installing and setting the high accuracy air control equipments, UPSs, monitoring parametres and structured cabling systems, but also Bachmann desk switchgear, contributed to the fast development of the project and the results and the team's attention to details impressed us.

The whole process of deployment was very well planned and by their partnerships, Quartz Matrix team offered us optimal solutions both regarding productivity and costs. We have constantly been aware of the progress of the work and the fitting in the agreed time frame.

We declare ourselves extremely satistfied with the way the project went and we are sure we will call on Quartz Matrix' services again."

Anca ROTARIU
Iași Site Lead
HCL Technologies România

Clients

THE LEAP FOR DIGITAL TRANSFORMATION

ONDETECT

Installing systems that increase employees' security, as well as the space's where they carry out their activity, no longer represent insignificant elements or that can be overlooked. Security systems are imperative for minimizing the losses that can be caused both by a fire, as well as in situations of unwelcomed burglary. The security systems that our team advance offer flexibility and allow you to have real-time control over unwanted events, being solutions adequate for your company.

Our wide portfolio of electronic security and fire safety solutions enabled us to develop complex safety systems for large spaces from industrial environment, as well as for critical infrastructures, airports, hospitals, universities, shopping centers and office buildings. We have the required authorizations and licenses for the design, installation and maintenance of all the solutions we advance to our customers.

www.quartzmatrix.ro/securitate-electronica-la-incendiu

Authorizations

• 0724, 0725/2011 IGSU Authorization for designing, installing and maintenance of fire limitation and extinguishing systems

• 4611/2015 IGSU Authorization for designing ventilation systems and installations for smoke and heat exhaust ventilation systems, except the natural-organized type

• IGPR License no. 0165/2005 renewed 2017 for designing, installing and maintenance of intrusion alarm systems

• 15754/2020 ANRE Certificate type C2A for execution of power lines, overhead and underground, with rated voltages of 0.4kV + 20kV, transformer substations with higher rated voltage of no more than 20kV, medium voltage stations, as well as the medium voltage electrical part of high voltage stations

• 15443/2020 ANRE Certificate for designing and execution of outdoor/ indoor electrical installations for premises/ civil and industrial buildings, branching at rated voltages of 0.4 kV

• INSEMEX GANEx.Q.2019.(32).12.0761/04.06.2019 Certificate regarding the ability to perform activities specific to Standard NEx 01-06 of designing, execution, installing, commissioning, control, inspection, maintenance and overhauls of electrical, electromechanical and automation in explosive environments installations

• 2239/2012 IGSU Authorization for designing and installing systems for signaling, alarming and alerting in the event of fire

• 2240/2012 IGSU Authorization for installation and maintenance of systems for signaling, alarming and alerting in the event of fire

• 0725/2011 IGSU Authorization for designing systems and installations of fires limitation and extinguishing

• Project Management Certificate

• Member of **SIEAR** – Electrical Installations and Automation Society and **ARTS** – Romanian Association for Technology Safety

Networking. Fire. Security

Solutions

Life & Safety
- Fire detection systems
- Gas fire extinguishing systems
- Smoke & heat exhaust ventilation systems
- Voice alert & public address
- ATEX

Electronic Security
- Intrusion detection system
- Video surveillance / CCTV
- Perimeter intrusion detection
- Access control & time and attendance
- Integration management software

Buildings Automation
- BMS
- Toll/paid parking & barriers
- Radio Clock
- Efficient lightning

High Voltage
- Power supply panel, electrical switchboard
- Generating sets & UPS
- Indoor normal lighting electrical installations & sockets
- Power electrical installations

Audio - Video
- Display signage systems
- Audio systems designed for congress halls
- Congress hall automation

Voice & Data
- Structured cabling

Services
- Consultancy
- Designing
- Project management
- Implementation
- Commissioning
- Training
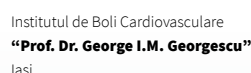- Maintenance & service

„We now benefit from an access control and clocking system installed in our factory in a professional way for a daily control of the ins and outs of our staff. Quartz Matrix team responded to our requests in an effective way with a performant project management both in terms of design and deployment, but also of commissioning. We highly recommend Quartz Matrix for projects in the field of electronic and physical security."

Piero SABBATINI
CEO
FONDAL INTERNATIONAL IAŞI

Clients

Institutul Regional de Oncologie Iaşi **IRO**

Iasi Airport Your way to the sky

CONEX distribution

Institutul de Boli Cardiovasculare **"Prof. Dr. George I.M. Georgescu"** Iasi

UNIVERSITATEA „ALEXANDRU IOAN CUZA" din IAŞI

Delphi Technologies

Partners

BOSCH

AXIS COMMUNICATIONS

VIKING

milestone

GEZE

THE LEAP FOR DIGITAL TRANSFORMATION

SENYS

Senys unit is dedicated to industrial energy efficiency solutions. Senys services cover the entire energy efficiency cycle by identifying sustainable operational energy costs reduction opportunities, by financing the deployment of the necessary solutions and recovering of investment from the savings generated by the projects.

www.senys.ro

"We confirm the quality offered by Quartz Matrix company in carrying out complex energy audits for the three SILCOTUB factories in Calarasi, Zalau and Campina. A Quartz Matrix team was dedicated to making measurements, retrieving data from our installations, interpreting and analyzing them. As a result of the analysis performed, for each factory, a plan of energy efficiency measures was developed. For the three factories, we were proposed 15 measures that would lead to a total saving of 887 toe / year. Thus, we recommend Quartz Matrix to other companies for energy audits, too."

Mihai BARBĂROŞIE
Energy Manager
SILCOTUB

Authorizations

- 59/24.09.2018 ANRE Authorization as a company providing industrial energy services
- 538/2019 ANRE Decision for authorized energy auditor, class I complex
- 83/2014 (2017) ANRE Decision for authorized energy auditor, class II, complex type
- 983/2019 ANRE Certificate and 749/2015 (2018) ANRE Certificate for Energy Manager services
- 15754/06.04.2020 ANRE Certificate for execution of power lines, overhead and underground, with rated voltages of 0.4kV + 20kV and transformer substations with higher rated voltage of no more than 20kV
- 15443/17.01.2020 ANRE Certificate for designing and execution of outdoor/ indoor electrical installations for premises/ civil and industrial buildings, branching at rated voltages of 0.4 kV
- Member of SAMER – Romanian Society of Energy Auditors and Managers
- Member of SIEAR – Electrical Installations and Automation Society

Partners

Schneider Electric   EATON   SIEMENS   kontron   ifm   PRAMAC GROUP   APC

QUARTZ MATRIX

Industrial Energy Efficiency

Industrial IoT
- Energy management system – ENEF
- Maintenance management system – KMR
- Info-point for informing the employees and receiving their requests – Prisma Matrix
- Logistics system – CronoLogistik
- Compressed air consumption monitoring system – Air Consum
- IoT system

Energy Efficiency
- Industrial energy audit
- Compressed air installations audit
- Feasibility studies
- Energy manager

Power Supply
- Industrial UPS
- Generating sets
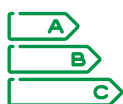- Frequency converters

Reactive Power Compensation
- Capacitor banks
- Inductors
- Harmonic filtration

Benefit from a clear image of energy efficiency on energy segments (electric, thermal, compressed air) for the company's internal processes

Economically substantiate the categories of measures, based on the estimated effects and return of investment time

Identify the main opportunities of consumption reduction, the technologies and the equipment for implementing these measures

Identify the energy performance improvement measures

Find out if there are wastages on input, production and consumption areas

Quantify the costs with energy economy

Clients

Continental

arctic
Tehnologia de acasă

OMV Petrom
Energia pentru o viață mai bună.

Dr.Oetker

TenarisSilcotube

ROMPETROL

LAFARGE

IGW

Autoliv

THE LEAP FOR DIGITAL TRANSFORMATION

Digital Education and Interactive Learning

We are actively involved in the Romanian educational environment progress and we facilitate teachers and students' access to modern technology for teaching - learning- evaluation. Quartz Matrix specialists in educational products offer the necessary consultancy and support on projects of development and deployment of endowing schools with modern technology for interactive education.

We invest in the development of modern equipment and solutions to increase digital content creation, as well as in teachers' training and, therefore, we created in Iasi a Digital Education Training Center for teachers and IT staff. So far, over 700 teachers joined the courses organized by the Quartz Matrix.

Through our own Research and Development department we put on foot the first digital laboratory made in Romania for learning foreign languages - ProLang. In 2017, the updated version of the laboratory won the CNIV award for excellence for implementation and promoting modern technologies in education and research.

- **Digital Education Training Center** – the only center of this kind in Iasi
- **ACCED e-learning** – distance learning platform
- **ProLang** - digital laboratory for learning foreign languages
- **LearningON** – e-learning platform
- **Interactive boards**

- **Educational software**
- **Special needs children software**
- **Audio - video equipment**
- **Sound systems**

www.nextclass.ro

"Iasi County School Inspectorate especially appreciates the support provided by Quartz Matrix company, the success of our partnership resulting in the establishment of a Training Center for Digital Education, a very important project for the undergraduate education in Iasi.

We appreciate the promptness and empathy that Quartz Matrix has shown in organizing and carrying out activities which come as a response for the rapid changes caused by coronavirus pandemic, as well as for the ongoing needs of teachers' training. We express our willingness to collaborate in future projects in the interest of the schooling system and the community."

Emanuela Pădurariu
Informatics Inspector
County School Inspectorate Iasi

Clients Pascani Special Middle School | Bircii Middle School | "Scoala Mea" Theoretical High School Bucharest | No. 18 Middle School Sibiu | "Dinicu Golescu" National High School Campulung Muscel | "Carol I" High School Campulung Muscel

Partners

Inspectoratul Școlar Județean Iași | CISCO | Promethean™ | EPSON® | TURNING technologies | DELL

MOZAIK education official PARTNER | Check Point SOFTWARE TECHNOLOGIES LTD | FORTINET® | veeAM | Bitdefender®

QUARTZ MATRIX

SLA GO
Zero întreruperi

Apart from services of maintenance and service, Quartz Matrix provides authorized services of commissioning for industrial UPS, high power generating sets, electronic security systems or fire safety systems.

Because we are at all times interested in the evolution of our customers' business, we constantly work with them to evaluate the maintenance plans and to develop strategies to maximize the value of assets throughout the life cycle.

www.quartzmatrix.ro/mentenanta-service

Fire Safety Systems

- Fire detection and alarming, both conventional and addressable
- Smoke and heat exhausting ventilation systems (hatches)
- Automatic fire extinguishing systems with gas, water or foam
- Public addressing systems
- Safety lightning

Partnerships: UTC Fire&Security, Bosch, Assa Abloy, Cooper, EcoProtection

Certifications

- GE Security NX & ATS Master programs range – installation and programming
- Honeywell – Technical competence for Esser fire detection and alarming systems
- 3M – Communication infrastructures

Authorizations and Operating Licenses:

- 0724, 0725/2011 IGSU Authorization for designing, installing and maintenance of fire limitation and extinguishing systems
- 2239/2012 IGSU Authorization for designing, installing and maintenance of systems for signaling, alarming and alerting in the event of fire
- INSEMEX GANEx.Q.2019.(32).12.0761/04.06.2019 Certificate regarding the ability to perform activities specific to Standard NEx 01-06 of designing, execution, installing, commissioning, control, inspection, maintenance and overhauls of electrical, electromechanical and automation in explosive environments installations

Electrical Installations and Backup Power Supply

- Single and three-phase UPS for industrial environment, but also for office buildings and Data Centers
- Power generators
- Electrical distribution panel, capacitor banks
- Power supply installations, lighting installations

Partnerships: Eaton, Siemens, Schneider Electric, Legrand

Certifications

- Authorized partner in Romania for selling, commissioning, service and warranty of APC and Eaton UPS
- **APC by Schneider Electric** – three-phase UPS: Galaxy 300 and Symmetra Px2 with power up to 160 kVA
- **EATON** – single and three-phase UPS from 9xSS range with power up to 40kVA

Clients

Delphi Technologies

Institutul Regional de Oncologie Iași **IRO**

Pentalog Software Factory

URB

e·on

bmt aerospace

11

QUARTZ MATRIX

Zero Downtime Maintenance & Service

We Keep Your Business Operative 24/7/365. Zero Downtime.

Our customers invest in state-of-the-art equipment and systems, making sure they will work optimally for many years. Being one of the most important and safer companies in Romania in the field of maintenance and Business-to-Business service, our teams are dedicated to make this happen. Quartz Matrix' SLA GO team has the experience, the dedication and the ability to support every aspect of maintenance and proper operation of a wide range of equipment, installations and systems for both companies in the industrial environment and for public institutions or office buildings.

Considering that preventive maintenance decreases the risk of equipment damage and unscheduled repairs, our maintenance services are either authorized by the manufacturer or carried out in collaboration with their authorized representatives. During possible repairs, the equipment in question may be replaced with a similar one so as not to decrease the company's productivity.

We offer different types of subscriptions for maintenance and service, in which there are very clearly specified the number of revisions, maximum time to intervene, how the spare parts needed for different stages will be delivered or the intervention team availability during the subscription. We also offer recommendations for preventive or predictive maintenance plans.

IT and Communications Infrastructure

- Equipment: servers, UPS, computers, multifunction printers
- Software: operating systems, software apps, network apps
- Voice and data communications: telephone and data networks, structured cabling

We Are Authorized Service Center for Service and Warranty:
Dell, HP - Gama Business, IBM, Eaton , APC

Certifications

- Microsoft Certified Professional
- Cisco CCNA Entry Network Technician
- IBM Professional Certification - Blade Center, Storage Solutions, System x, PureFlex
- HP Accredited Technical Professional - Storage, Blade, Rack and Tower Server Solutions
- HP Accredited Integrations Specialist Network Infrastructure
- Comp TIA A+ Certified Professional IT Technician

Electronic Safety Systems

- Intrusion detection systems – robbery attempt detection and alarming
- Access control system, access gates, turnstiles, metal detection gates, car barriers
- Clocking systems
- Video surveillance CCTV systems, analogical and IP
- Perimeter security systems
- Intercom systems

Partnerships: UTC Fire&Security, Bosch, Honeywell, HID, Cooper, Assa Abloy

Certifications

- IGPR License no. 0165/2005 renewed 2017 for designing, installing and maintenance of intrusion alarm systems
- GE Security NX & ATS Master programs range – installation and programming
- Axis – video surveillance solutions
- Mobotix Certified Installer & Planner

Audio, Video and Conference Systems

- Sound and video projection systems
- Digital signage display systems
- Audio and videoconference systems, simultaneous translation systems for conference rooms
- Clock display systems for companies, airports, campuses, etc.
- TV signal distribution systems

Partnerships

- Poly
- Epson
- Extron
- RCS Audio Systems
- HP
- Dell
- Lenovo

Research. Development. Innovation

Quartz Matrix' Software Design & Development department has been developing integrated software applications for over 20 years, apps designed to solve concrete needs of Romanian companies and institutions. To help streamlining the processes within the companies we create new applications, we adapt the already developed platforms or we customize Open Source applications.

- Custom applications
- Custom software
- Support services

Developed Solutions:
- Digital laboratory for foreign language learning
- Simultaneous translation system for conferences
- Energy and utilities management
- Equipment maintenance management
- Modular SCADA system for monitoring and controlling industry processes
- Customer traffic metering
- Info-point for digitizing HR processes
- Environmental parameters monitoring
- Electronic weighing pads
- Air temperature and humidity monitoring
- Data center security (server room)
- Temperature measurement and recording for food industry
- BMS system and equipment traceability for the medical system

Software Development Certifications:
- Microsoft .NET Framework 3.5 - Windows Forms Application, ASP.NET Application & Development, Windows Communication Foundation, ADO.NET Applications & Development, Windows Communication Foundation Application Development
- Microsoft Certified Professional Developer – Enterprise Application Developer 3.5
- Microsoft Certified Technology Specialist
- Managing Projects with Microsoft Project, Microsoft .NET Framework 2.0 – Web-based Client Development
- Microsoft .NET Framework – Application Development Foundation
- Web Applications Development Dent with Microsoft .NET Framework 4

QUARTZ MATRIX®

What We Do

- Development of digital, analogue, wireless, radio, optical and cable communication systems
- Design and development of hardware / firmware architectures with 8-32-bit (PIC/ARM) microcontrollers for embedded systems, industrial automation and communications, process management and SCADA platforms
- Energy systems engineering (energy efficiency audit, cost reduction solutions, renewable energy integration)
- Development of precision measuring systems for electrical and non-electrical values, sensors or sensor networks interfacing
- Development of control and automation of distributed processing systems
- Design and creation of SCADA (System Control and Data Acquisition) system software applications, databases, integrated distributed data collection applications, user interface, etc.

www.quartzmatrix.ro

Projects Carried Out with EU Funds:

- **Research Partnerships** - the project "Investigation, assistance and control of neurological diseases system based on the brain-computer interface" in partnership with Iasi Technical University, Iasi University of Medicine and Pharmacy, Iasi Institute of Theoretical Informatics and the research project "Landslide monitoring complex system" in partnership with Iasi Technical University (coordinator), Iasi National Research and Development Institute for Technical Physics, Bucharest National Research and Development Institute for Materials Physics, Iasi Alexandru Ioan Cuza University;
- **Contracts with the National Authority for Scientific Research** - „ENEF - innovative delivery solution of an energy management and efficiency system"
- **Project in H2020 Energy Efficiency - Demand Response Section** - „A Way for Efficient Energy Management (DREEM)", a consortium project led by Prague Technical University

Clients

Dr. I. Parhon Clinical Hospital Iasi

Technical University of Prague
H2020 Energy Efficiency

ferrovial

Ferrovial Servicios Spania
H2020 Energy Efficiency

UNIVERSITATEA „ALEXANDRU IOAN CUZA" din IAȘI

National Authority for Scientific Research and Innovation

Gheorghe Asachi Technical University Iasi

THE LEAP FOR DIGITAL TRANSFORMATION

enef

Complete integrated application for remote reading of metering data, real-time consumption tracking, technical, commercial and managerial reports generation and accurate substantiation of consumption forecasts correlated with the level and structure of activities.

www.senys.ro/sistem-management-energetic

Energy and Utilities Consumption Monitoring

Natural gas	Compressed air	Water	Electricity	Thermal energy

Management

- Optimal selection of energy suppliers
- Consumption forecasting
- Energy budgeting of cost centers and activities
- Selection base for consumption reduction energy technologies input areas
- Tool for evaluating the efficiency of reduction actions
- Tool for raising resource usage discipline and awareness of environmental efforts

Energy Manager

- Tracking consumption and distribution parameters, agent and distribution quality
- Elimination of internal distribution wastage and inefficient use
- Damage prevention and incident analysis
- Reports for in-depth analysis

Economic

- Energy intensity calculation by locations or areas
- Allocating costs on cost centers
- Precise operational costs calculation

Clients

Delphi Diesel   Continental   arctic Tehnologia de acasă   URB   Cummins   Celestica   Roca

RECOMPLAST   IPG Infopress Group   preh   Autoliv   Electrolux   TenarisSilcotube

QUARTZ MATRIX

Energy Management System

For Monitoring Energy Consumption & Assuring Energy Efficiency in the Context Given by 121/2014 Law and in Supporting the Implementation of ISO 50001:2011 Standard

Developed for Control

- Accesible
- Configurable
- Reports
- Shareable
- Meters management

Dedicated to Energy Management for:

Manufacturing / industrie prelucrătoare
- Manufacturing / Processing industry
- Energy, resources and utilities – production & distribution
- Office buildings
- Retail and distribution / Trade
- Medical
- Airports

"We recommend Quartz Matrix to other companies, too, for the good identification of the solutions we needed, proper execution and time framing of deadlines. We mention that the project was deployed without any incident, the implementation team adapted to our working conditions: they performed the deployment without interrupting the planned production."

Sebastian Rusu
Senior Facility Engineer
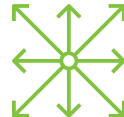DELPHI DIESEL

Energy cost reduction

Consumption reduction

Energy efficiency growth

Energy efficiency growth

Competitiveness growth

Energy management according to 121/2014 Law

Support for ISO 50001:2011 standard implementation

- Consumption abidance by budgeted values
- Tracking specific consumption by location and area, local accountability and central monitoring
- Measures resulted from analyzing remote management system reports
- Unnecessary consumption elimination and discipline of use strengthening
- Exact calculation of energy cost and intensity per location

- Streamlining the use of energy and utilities resources
- Analysis of distribution and energy consumption quality
- Analysis of damage incidents
- Major machine faults prevention by monitoring consumption parameters and preventive maintenance

THE LEAP FOR DIGITAL TRANSFORMATION

KMR
Keep the Machine Running

KMR is a system for maintenance optimization and management designed for planning and organizing the maintenance of machinery/ equipment activities flow in a factory, company or office building.

- Find out the costs of interventions, consumables and maintenance
- Monitor the time and operating status for each equipment
- Track the percentage of interventions performed on time and the delayed ones
- Find out the average repair times, consumables and out of stock supplies
- Track the volume of interventions of each technician
- Track equipment failure rates and costs

www.mykmr.ro

Management

- Configure multiple working points
- User access control: roles, rights, access areas
- Nomenclatures: type of overhauls, equipment and consumables categories, service providers, working procedures
- Configure custom alerts and notifications
- Import-export Excel data

Technicians

- Mobility - web interface (laptop / tablet / phone)
- Planned interventions schedule
- Quick access: intervention history, technical specifications, service manual
- Monitor operational parameters
- Alerts, real-time notifications
- Allocated tickets management

Reports

- Interventions: costs, planned and delayed activities
- Consumables: top costs, top uses, consumption evolution, planned vs. stock
- Equipment: intervention costs, intervention rate, operating time, sensor alarms
- Tickets: ticket status evidence and monitoring

Consumables Management

- Inventory control: minimum threshold alert, stock records in multiple working points
- Cost control
- Planning the necessary materials for interventions
- Required consumables

Machinery & Equipment

- Full database
- Specifications and technical documentation
- Recording of operating hours
- Planning preventive & predictive maintenance activities
- Corrective maintenance
- QR Code scanning and labelling

QUARTZ MATRIX

KMR. Keep the Machine Running

Functionalities

- Corrective / accidental maintenance
- Preventive / planned maintenance
- Predictive maintenance
- Ticketing - work tasks assignment
- IoT module - real-time monitoring
- Spare parts & accessories management
- Machinery & equipment management
- Diversified reports: top costs, top overhauls, interventions, etc.
- Alarms & notifications (in the platform, by e-mail & SMS)
- Roles & permissions configurable

Gives Responsible Staff Control on:

- Effective maintenance planning, monitoring & implementation
- Equipment, materials, activities & costs associated to maintenance
- Real-time monitoring of equipment information through IoT module:
  - Operating time
  - Vibrations
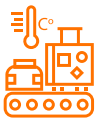 - Temperature
  - Level
  - Flow
  - Concentration

> "We permanently collaborated with the deployment team and we managed to bring the working mode from the application as close as possible to the working mode from the section. KMR is a systematic and detailed software that allows us to perform equipment maintenance in a very practical and useful way.
>
> The company was opened to adapt the KMR system to the needs of our company, implementing new modules and reports or modifying sections according to Comelf internal procedures."

Cenusa Gheorghe
General Director
COMELF

IoT Module - Automatic Retrieval of Useful Information for Maintenance Management from Equipment / Machinery

Temperature	Level	Operating time	Flow	Vibrations	Concentration

Clients

TEHNOPLUS® MEDICAL   NBHX ROLEM   Karelia HARDWOOD FLOORS   PANOVIA Patiserie gustată de români   LEM'S   RAP confectionery   AC AQUA CARPATICA

Comelf   elpreco   LIDAS® PENTRU O VIAȚĂ MAI SĂNĂTOASĂ   ETNIS   Artifex   swarco   Academia Navală "Mircea cel Bătrân"

THE LEAP FOR DIGITAL TRANSFORMATION

PRISMA MATRIX

It is an Info-Point information management system that facilitates communication and employees' requests. The system allows companies with a large number of employees or employees who do not have access to PC and e-mail to ensure their access to information and documents of interest (procedures, KPI statistics, clocking, days off, individual results, tutorials, trainings, feedback, etc.) as well as the possibility to make requests to the HR department for the issuance of certificates and documents (doctor's, bank, town hall certificates, employee certificate, etc.).

www.prismamatrix.ro

Without

- HR office queues
- Wasted back and forth and downtime
- Communication limitation
- Fragmentary or wrong shared information
- Delayed processes due to lack of information
- Delayed documents
- Paper consumption costs
- Misplaced or hard to find documents
- Missed out objectives

Dedicated to HR Department

- Improve the relationship with the employees by cutting the waiting time for certificates or any other documents.
- Keep employees informed and share clear messages.

Dedicated to Management

Through Prisma Matrix system, management can inform employees about projects, policies, activities, expectations, objectives, desired results, etc.

Production Department

Display production information: days passed since the last work accident, daily target, timers, LED visuals for efficiency monitoring and permanent work volume control, etc.

Maintenance Department

Display information for effective organization of work interventions: current day maintenance, intervention alarms and notifications, tickets in progress or in standby, parameters monitored from equipment, etc.

Digitizing Communication Between Company & Employees

QUARTZ MATRIX

Digitizing Human Resources

Performance
- Activity report
- Clocking
- Clocking generation
- Individual results
- Evaluations

General Information
- Employee file
- Available jobs
- Occupational medicine
- Organizational chart
- Skills
- Contacts list

Feedback & Training
- Testing
- Employees feedback
- Pre-employment tests
- Training

Requests & Certificates
- Audience scheduling
- Holiday days left
- Leave requests
- Certificates

Benefits
- Transport routes
- Facilities

Cut waiting time

Boost employees' productivity

Streamline learning process

Increase employee motivation

Client Case Study

> Automotive company
> Equipment/ car accessories production
> 1500+ employees
> 8 Prisma Matrix devices installed

The company's goal was to facilitate the employees' quick access to information and documents by making available an user friendly system. Prism Matrix displays general information on the activity on the production line, achieved vs. planned statistics, planned activities, etc.

At the same time, the system allows an effective activities organization by department. For the HR department the info-point has the role to facilitate the employees' access to personal information such as days off, clocking, individual results, as well as filling in of various forms for issuing leaves of absence and certificates.

QUARTZ MATRIX

DigiTrafic

SISTEM PENTRU ANALIZA FLUXULUI DE PERSOANE

DigiTrafic is a software application for monitoring people flow, sales and conversion rate from one or more locations. The aim of the application is to give you the ability to make business decisions based on the performance data of your selling points. DigiTrafic has options such as: real-time data, personalized and periodic reports, peak hours and recorded sales monitoring, data on marketing campaigns efficiency, etc.

www.digitrafic.ro

"eMag has acquired DigiTrafic solution to monitor showroom people traffic and calculate conversion rate. The information obtained allowed the analysis of the visitor flow increase or decrease based on the promotions we had launched. The results were as expected, monitoring visitor traffic bringing extra performance to our team. Collaborating with Quartz Matrix was effective and whenever we needed help our requests were promptly answered."

Alexandru Mihuleac
Administrative Responsible
eMag

Retail – Commercial Activity Evaluation

- Calculating conversion rates (visitors vs buyers)
- Measuring the impact of promotional campaigns
- Identifying high traffic locations
- Evaluating and organizing sales force
- Analyzing traffic values by time intervals correlated with other indicators (e.g. weather)

Marketing Research – People Flow Indicators

- Products and events marketing research
- Investment opportunities evaluation studies
- Shops people flow optimization studies

Buildings and Public Spaces – People Flow Indicators

- Real-time buildings occupancy rate
- Alerts on exceeding maximum number of people
- Traffic peals identification
- High traffic days and hours identification

Event Halls – Support in Taking Decisions

- Measuring promotional campaigns impact
- Measuring an event audience (conference, exhibition, show)
- Organizing visitor reception area and activities with the public
- Making investment decisions for work capacity growth
- Sizing reception areas to corresponds to traffic values and safety needs

Quick Interventions All Over the Country

- Consultancy, designing and sizing
- Deployment, configuration
- Maintenance, upgrade
- Staff training
- 24/7 assistance and service through phone, e-mail and Web
- Ensuring proper functioning of communication infrastructure

QUARTZ MATRIX

People Counting Analysis System

DigiTrafic, people counting monitoring system, provides analytical support for making business decisions

- Allows real-time tracking of visitor numbers
- Discovers peak hours with the highest traffic & the highest sales opportunity
- Maximizes performance through comparative analyses of traffic data & revenue over different time periods
- Maximizes sales by monitoring "conversion rate" performance indicators for each location
- Generates custom reports. Allows automatic transmission of reports with the desired frequency and intervals
- Effectively monitors marketing campaigns & communication channels by evaluating the traffic generated by them, before, during and after the launch of the campaign

Monitor multiple locations and manage collected traffic data

Discover top visited locations, most effective or ineffective campaigns

Make comparisons between monitored locations

Get reports both on all the locations and on each location

Choose hourly, daily, weekly, monthly, quarterly reports or make custom selection of the periods

View real-time visitor numbers
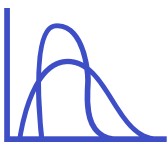
Make comparisons between ongoing campaigns or the same campaign in different locations

Monitor performance indicators: conversion rate, cost per visitor, revenue

Set alerts for real-time knowledge of objectives' fulfillment or failure

Get e-mail or SMS notifications

Clients

eMAG   ALTEX   INTERSPORT   CCC   aurora SHOPPING MALL   Iris Titan SHOOPING CENTER   TOMMY HILFIGER

THE LEAP FOR DIGITAL TRANSFORMATION

Authorized IT Testing and Certifications Center

QUARTZ® MATRIX

We know how important personal development is and we understand how much an IT certification can influence career. As Iasi is one of the most important IT centers in Romania, we have taken the necessary steps to offer the chance of getting an internationally recognized professional certification to everyone who want to prove their skills in this filed right in the city where they carry out their activity.

Thus, we became part of the most important worldwide testing center networks: Pearson VUE, Kryterion and Prometric. Our center is authorized by all these three entities and we offer the opportunity to take exams for getting Microsoft, CompTIA, Cisco, Oracle, VMware, Google, Linux and many other certifications.

Every day, thousands of exams are taken in the testing centers around the globe in the safest and most effective way. Stand out too! Schedule yourself for an exam right now.

www.qmart.ro/certificari

★★★★★ 4.8/5

Ovidiu Strugariu: I took a lot of Cisco certification exams at their testing center. The staff acted exemplary. Looking forward for the next one.

Albert Emanuel: I took a certification exam at Quartz Matrix. The staff was prompt and professional. 10+ for these people.

Mihaela A: About my experience (I took two Oracle exams):
- the testing environment is calm and relaxing (which is important for this kind of exam)

Read all the reviews online >

Pearson VUE
Authorized Test Center

PROMETRIC TEST CENTER

KRYTERION™ AUTHORIZED TESTING CENTER

IT Certifications

Microsoft | BCS - The Charted Institute for IT | VMWare | Oracle | Comptia | AWS | Cisco | Zend | Exin | Peoplecert

THE LEAP FOR DIGITAL TRANSFORMATION

Electricity Audit

ROMPETROL

The outline of the energy balance was established at the level of the pumps for raw material supplying, the inputs in the energy outline being considered the measurements performed at the supply bars of the pumps.

Complex Energy Audit

Continental

The outline of the energy balance was established at the level of departures from the general distribution board, chiller pumps, air treatment plants, compressor station, plastics injection machines, exterior lightning, etc.

Refrigeration Units and Electrical Installations

IGW

Distribution of electricity from the designed electrical panel to the ventilation and lightning strikes equipment of the outside ventilation equipment installed on the roof of the building.

Development of Facilities Necessary for an Adequate Degree of Security

Iasi Airport — Your way to the sky

Design and execution: fire detection system, fire signaling and alarming, data-voice installations, sound system, clock display, burglary alarming system, access control system, etc.

Monitorig Electricity Consumption

Delphi Technologies

Providing project management for system extensions, as well as its maintenance within a service contract with guaranteed SLA 24/7.

Integrated Safety and Security System

Institutul Regional de Oncologie Iași — IRO

Design of high voltage electrical installations, burglary systems, CCTV, access control, fire detection and automated smoke clearing strictly complying with the legislation in force.

Fire and Safety Systems Maintenance

UNIVERSITATEA „ALEXANDRU IOAN CUZA" din IAȘI

Maintenance for electronic and fire security systems installed in the 5 buildings of the university, 9 student dormitories, library and canteen, under a guaranteed SLA contract.

IT Infrastructure Design and Deployment

Antibiotice a+

Virtualized infrastructure for integrated management of laboratory activity (LIMS) and for pharmaceutical products serialization.

QMART

Qmart.ro is the B2B online store that provides smart technology and innovative and up-to-date products for companies and institutions, which, along with the real expertise in engineering and complementary services (design, deployment, service), bring real value to our customers' businesses.

www.qmart.ro

Consultancy from specialists

Our consultants are always available for identifying the most appropriate solution for your company or business. After order completion, we do not stop here. We help you with the deployment and commissioning of the equipment, their maintenance or any repairing.

Office Accessories
- Built-in Modular Sockets
- Wire Organizers and Cable Hiders
- Wireless Chargers
- Privacy Gilters
- Adapters

Healthcare solutions
- Medical Screens
- Labels Printers
- ID Bracelets
- Antibacterial Mats

Stocks and Fixed Assets Inventory
- Bar Code Labels Printers
- Bar Code Readers
- Bracelets, Cards & Receipts Printers
- Mobile Terminals

Software
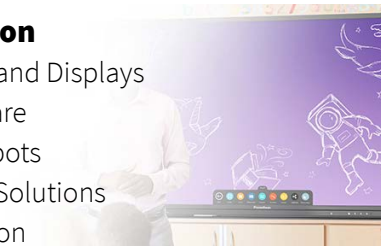- Industrial Software
- Software Licenses

Audio – Video Equipment
- Virtual Reality
- Videoconference Systems
- Sound Systems
- Headsets
- Video Projectors
- Projection Screens

Interactive Education
- Interactive Boards and Displays
- Educational Software
- Programmable Robots
- Special Education Solutions
- Vocational Education

Hardware
- Servers, storage
- Computers and laptops
- Tablets & accessories
- Graphics tablets
- Screens
- Copy & print

Retail Solutions
- Videowall
- Digital Signage
- POS Systems

Top Manufacturers in Our Store

DELL | hp | CISCO Partner Premier Certified | vmware Partner Connect | veeAM PROPARTNER Gold Reseller | JOO Simply. More. Safety. | Check Point SOFTWARE TECHNOLOGIES LTD | FORTINET SILVER PARTNER

BACHMANN | AXIS COMMUNICATIONS | BOSCH | Bitdefender | APC | Jabra GN | logitech

QUARTZ MATRIX

All-Inclusive B2B One-Stop Shop

Complete Solution

In addition to the wide range of products, we also offer related services of designing, installation & maintenance

Advisory Sale

Specialized technical support for a documented purchase, according to your business needs

Partnerships with Top Manufacturers

Access to up-to-date products & technology from notorious brands

Certified Specialists

All Quartz Matrix specialists are available to offer consultancy on your request

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We thank customers who come back constantly for purchases on qmart.ro

"We especially appreciate the good relationship we had with Quartz Matrix team regarding products purchase and shopping experience in **Qmart online store.** We would like to inform you that the sales representatives responded effectively and quickly to our requests, they always offered us the proper IT solutions and equipment for our needs, and the placed orders were delivered promptly. As users of Quartz Matrix store's services and solutions, we confirm the high quality of the provided products and services and the professional way of dealing and collaboration."

AUTONOMOUS ADMINISTRATION OF NUCLEAR ENERGY TECHNOLOGIES
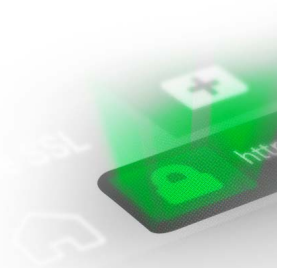Nuclear Research Institute Pitesti

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Electronic Security
- Intrusion Alarm Systems
- Surveillance Systems
- Perimeter intrusion detection
- Access control and Time & Attendance

Data Security
- Firewall/ Spam Firewall
- Web Filter
- Link & Load Balancers
- Antivirus/ Antispam
- SSL Certificates
- Backup & Recovery

Networking
- Switches & Routers
- Industrial Routers and Modems
- Digital Phone Switchboard & IP Phones

Fire Safety
- Fire Detection
- Gas Fire Extinguishing Systems
- Smoke & Heat Exhaust Ventilation Systems
- Safety Lightning

Industrial Automations and Applications
- Industrial Computers
- Industrial Laptops & Tablets
- Industrial Displays & PC Panels
- Industrial Sensors
- Building Automation

Energy Efficiency
- Industrial UPS
- UPS
- Generating Sets & Accessories
- Capacitor Banks & Parts
- Frequency Converters
- Portable Power Generators

THE LEAP FOR DIGITAL TRANSFORMATION

NORSIT
SUPPORT SERVICES
IT, Cloud & Data Centers

SENYS
Industrial Energy Efficiency

SLA GO
Zero întreruperi
Maintenance and Service

Reseach & Development
Software and Solutions Developement

ONDETECT
Fire and Electronic Security

Next Class
Digital Education

QUARTZ® MATRIX

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