

## TECHNICAL SPECIFICATIONS NEXI GO PERFORMANCE 16-2024:

### **NEXI GO PERFORMANCE virtualised ICT classroom for 16 students + teacher (16 NEO virtual desktop devices for students connected to a single teacher NEXI GO Performance server)**

#### **1x NEXI GO PERFORMANCE 16-2024 SERVER**

- CPU with a minimum clock speed of 4.2 GHz and a total of minimum 16 cores
  - DDR5 RAM, minimum capacity 128 GB
  - 4 TB SSD M.2 drive with a minimum rating of 2400 TBW
  - 2x graphics card with a minimum of 8 GB VRAM
  - GbE LAN (10/100/1000 Mbit/s)
  - sound card
  - 1000W PSU with a minimum rating of 80 PLUS Gold
  - PC case with dust filters and sound proofing
- **The basic NEXI server package also includes:**
    - server assembly to your specifications
    - in-depth diagnostics for all server components
    - basic server configuration
    - installation of the central management and administration system (the supplied central management for the teacher is provided by the virtual desktop device manufacturer and ensures full compatibility of communication between the server and the virtual desktop device)

#### **16x NEO VIRTUAL DESKTOP DEVICES**

- displays the shared server output to student monitors
- ensures that input from peripherals is transferred between the virtual desktop device and the server
- own separate disk space
- zero noise level, without any moving parts such as a hard drive or a fan
- operational power consumption 5W
- max. power consumption 15W
- supports resolutions of up to 1920x1080
- 10/100/1000 Mbps Ethernet
- support for USB peripherals, such as memory cards and audio devices
- maximum dimensions 120x120x40 mm
- maximum weight 300 g
- support for RDP protocol with graphic acceleration
- communication software and firmware for the virtual desktop devices in selected language

NEXINEO s.r.o., Pestovateľska 2, 821 04 Bratislava  
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- significant reduction of electromagnetic emissions in the classroom
- the product meets all EU safety requirements
- industrial-Grade microSD memory card with 16GB capacity
  
- **NEO virtual desktop device packaging**
  - NEO virtual desktop device
  - power adapter
  - VESA mount
  - microHDMI – HDMI cable
  
- **NEO virtual desktop device inputs and outputs**
  - 2x USB 2.0 ports, 2x USB 3.0 ports
  - 1x 4-ring TRS 'A/V' jack 3.5 mm
  - 1x integrated power/reset button
  - 5V 3A DC USB-C
  - 2x microHDMI video output
  - 1x RJ45 Ethernet

#### **FEATURES OF THE NEXI Board MANAGEMENT CONSOLE:**

- the possibility of sharing the teacher's screen to all, or only selected student virtual desktop devices in the classroom - presentation in multimedia form
- possibility to share a student screen to all other students in the classroom
- remote assistance to students when using the software
- the teacher has the option to disconnect, log out, log in, and restart any virtual desktop device
- the teacher can take remote control of the student terminal
- the teacher can send one-way notifications to student(s)
- virtual desktop device USB input blocking - the student will still be able to see the devices that have been connected to the client prior to blocking the USB input (e.g. mouse, keyboard)
- disable/enable internet access on student virtual desktop devices
- disable/enable social networks access on student virtual desktop devices
- advanced file (assignment) sharing capabilities for students
- simple deletion of downloaded student and other files (documents, tables, presentations, etc.) and cleaning of the desktop on student virtual desktop devices
- simple way to collect results from the student virtual desktop devices
- possibility to allocate part of the server power to users outside the NEXI Board
- intuitive installation and configuration via the installation wizard
- supplied software in selected language
- training for the supplied software by a lecturer of the manufacturer
- compatible with Windows Server 2022 and above

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### 1x SWITCH

- Minimum number of 24 ports
- GbE LAN (10/100/1000 Mbit/s)

### 1x ROUTER

- Minimum number of 4 ports
- CPU with a minimum clock speed of 880 MHz
- RAM with a minimum capacity 256 MB
- RouterOS L4

### REQUIRED MICROSOFT LICENCES

- 1x Windows Server 2022 Standard - 16 Core License Pack EDU
- 16x Windows Server 2022 Remote Desktop Services – CAL EDU
- 16x Windows Server 2022 - CAL EDU

Gigabit network infrastructure.

The server top layer uses Windows Server running a user management application and facilitating LAN communication with the NEO virtual desktop devices. RDP with graphic acceleration developed directly for the NEO virtual desktop devices is used as the basic two-way communication protocol (it does not require a CPU or a lot of RAM on the terminal; everything takes place on the server). Just like with the traditional solutions, every user has his/her own desktop, programs and settings.