

COM Nano System

MODULAR INDUSTRIAL PC WITH AN INTEGRATED COM MODULE

nVent SCHROFF has developed a new, industrial mini PC with standard interfaces, such as Ethernet, USB and DisplayPort, that is available in an IP20 and an IP53 version.

The COM Nano System is equipped with a COM carrier, which allows for flexible adaptation of the processor performance and interfaces. The key feature of the mini PC is its ability to dissipate higher power losses.



ADVANTAGES

- Easy adaptation to different IP levels with additional IP gasket
- Fast adaptation of the processor performance thanks to the COM Express Type 6 Compact modules with 8th generation Intel Core i processors
- Interfaces can be defined individually by using a modular COM carrier
- Excellent cooling performance with power dissipation of up to 25 W

AREAS OF APPLICATION

- Communication technology
- Industrial automation
- Test and measurement
- Railway and MIL applications
- Power generation
- IoT
- Automotive

ADAPTATION OF THE PROTECTION CLASS AND COOLING PERFORMANCE

One particularly special highlight of the mini PC is its easy adaptability to different IP levels. For protection class IP53, the case is equipped with an additional IP gasket between the upper and lower half of the case. To increase the cooling performance, in addition to the completely passively cooled case there are also versions featuring a fan in the heat sink.

CASE WITH IP53 PROTECTION



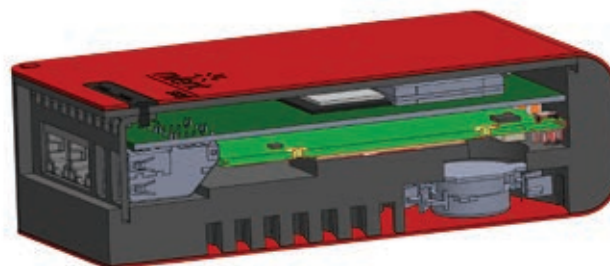
A **round IP gasket** is inserted into the notch in the case to seal the case parts to each other.



An optional **radial fan** is mounted under the cover. It pulls the heat from the inside of the case and simultaneously dissipates the heat at the cooling fins.

TECHNICAL DATA

- Embedded system with x86 COM Express Type 6 module
- 8th generation Intel® Core™ SoC processor
- Up to 4 processor cores, up to 64 GB DDR4 2400 MT/s RAM
- 2 GB Ethernet interfaces, 3 USB 3.0 ports and one DisplayPort
- Power push button, power and HDD LED on the top of the case
- 12V DC power supply input
- Internal MiniPCIe slot with SIM card slot, e.g. for a WiFi module or mobile communications module
- Integrated M.2 PCIe hard drive, memory capacity up to 1 TB
- 14.5 × 11 × 4 cm for an extremely small case size
- Various installation options for wall mounting, a profile rail or as a panel PC



ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION	DIMM	MEMORY	IP STANDARD	COOLING
21265-051	COM nano, Intel® Core™ i3-8145UE	16GB DDR4-SO-DIMM-2400	SSD M.2 256GB x4 PCIe	IP53	PASSIVE
21265-052	COM nano, Intel® Core™ i5-8365UE	16GB DDR4-SO-DIMM-2400	SSD M.2 256GB x4 PCIe	IP53	ACTIVE, ONLY COOLING FINS
21265-053	COM nano, Intel® Core™ i7-8665UE	32GB DDR4-SO-DIMM-2400	SSD M.2 512GB x4 PCIe	IP53	ACTIVE, COOLING FINS AND CASE INTERIOR

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