

VisiTouch PC Box is an outstanding numerical control for machine tools with a new solution all-in-one:

- Full digital up to 24 axes with EtherCAT® and CANopen®
- Optimized wizard for axes motion control which allows high precision positioning.
- Multi-channel machining process
- Powerful processor capable of handling multitasking operation
- One architecture for all machines:
 - Turning
 - Milling
 - Drilling
 - Grinding
 - Punching
 - Laser cutting
 - ...



In addition to all the features available to control the most sophisticated machine tools, VisiTouch PC Box offers also an open system allowing customization up to the Industry's 4.0 production management requirements.

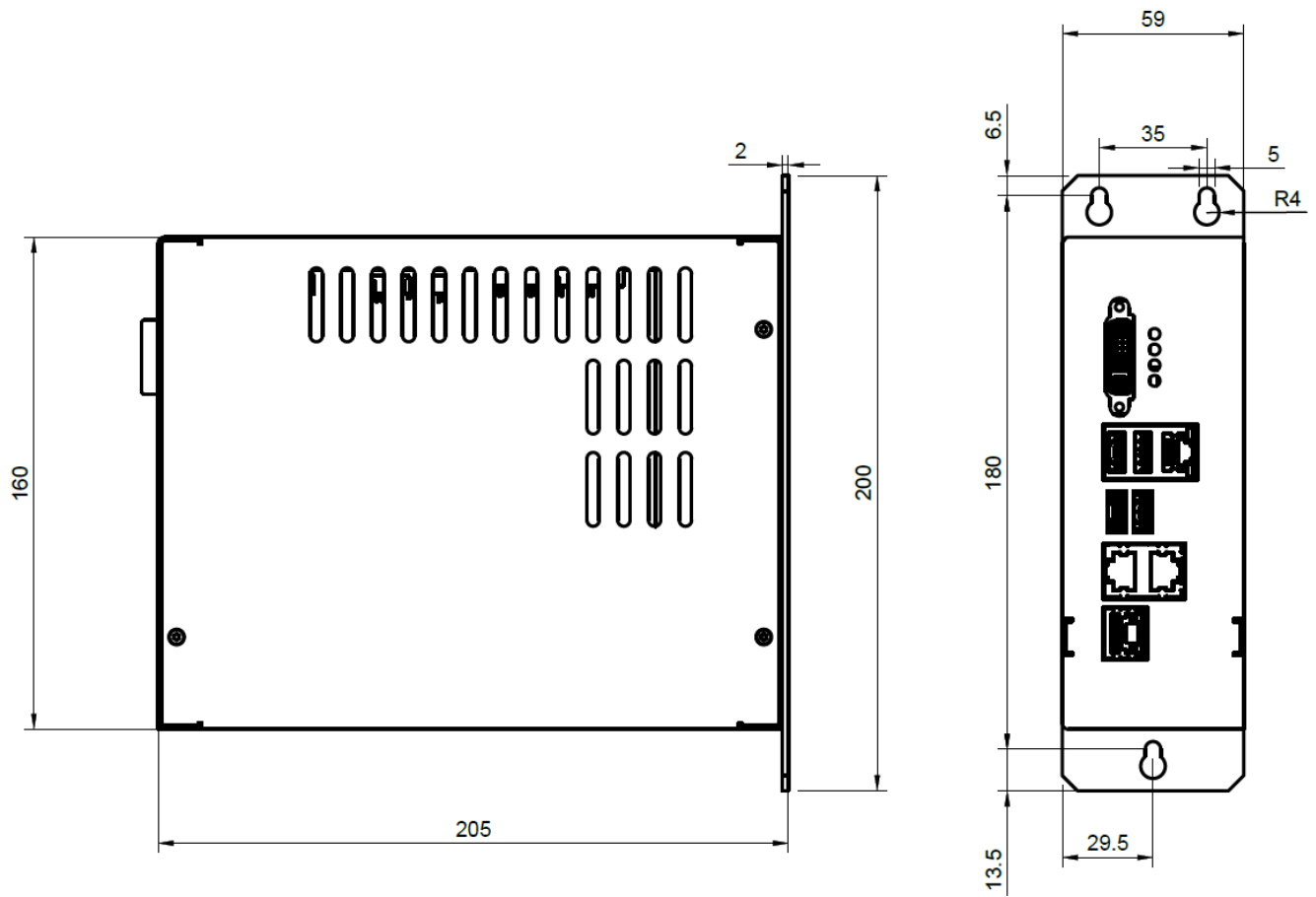
Main features

- Most highest precision thanks to sophisticated algorithms (developed especially for the Swiss watch industry quality)
- 5-axis interpolation
- Fast inter-operation, optimized movements.
- Set up with dedicated wizards (auto-tuning).
- Axis control through EtherCAT® with wide configuration Axis
- Calibration (correction table)
- Probing cycles
- Tool life management
- Plugin architecture to implement specific functionalities including customized HMI interface and dedicated cycles.

Technical Characteristics

Operating System		Windows 10
Processor Unit	Model	Intel® Atom x7-E3950 Quad-Core @1.6GHz
	Graphic	Intel Gen 9LP Graphics
	RAM	8 GB DDR RAM
	Cooling	Passive Heat sink, FAN less
Mass Storage	Capacity	40 GB CFAST memory card SATA 16 GB eMMC
Display Interface		DVI Up to 1920x1600, single-link DVI-D interface
Communication		LAN 1x Gigabit Ethernet, RJ-45 (10/100/1000) USB 4x USB (1x USB 3.1, 3x USB 2.0) COM 1x RS-232C/RS-485 (Data flow 115kbps) Wi-Fi Possible via USB (Not provided by Cybelec) 4G-5G Possible via USB (Not provided by Cybelec)
Operating temperature		0 - 40°C
Power Supply (Numerical Control)		+24V _{dc} @0.8A typ. (CN without I/O – X1 connector)
Power Supply (Digital I/Os)		+24V _{dc} @ 20A max.
RTC – Calendar Clock		Battery Lithium CR2032 / 3V @225mA/h
I/O Processor		ARM Cortex M7 series – STM32F765 @216MHz
Axes		24 Automation and motion control axes
Digital Input		6 4mA typ. according to IEC61131-2 type 1 & 3 Isolation 2kV Filtering – debouncing and deglitching (by step of 250µs) 2 Fast digital input for 24 V _{dc} Handwheel
Digital Output		4 0.5A typ. /0.7A max. according to IEC61131-2 type 3 Isolation 2kV Overvoltage and Short circuit protection Status – output in fault and no 24V IO power supply
Fieldbus Interface		2 CANopen 1Mbps CAN 2.0 A, RJ-45, CANopen Master/Slave 1 EtherCAT 100Mbps EtherCAT, RJ-45, Master Stack

Dimensions



Ordering information

VisiTouch PC Box

BPC-80MO	VisiTouch PCBox, MO, 1 ISO channel
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Software options

OFT-AMO	CNC axis license
OFT-PMO	PLC axis license
OFT-CHN	License ISO channel
OFT-PCP	License to program part coordinates -TTP
OFT-DRO	License to manage fast inter-operation optimized movements
OFT-CAT	Axis calibration license (correction table), per axis
OFT-CYP	Probing cycles license
OFT-CYG	Engraving cycles license
OFT-GNC	Consecutive numbering engraving license
OFT-GOF	Tool life management license
OFT-MEO	Tool measurement license
OFT-MOT	Tool changer in masked time license

CyBIO module cards

IOM-CPU-6C	Fieldbus coupler, CANOpen
IOM-CPU-6E	Fieldbus coupler, EtherCAT
IOM-DI12O8-1A	Digital module, 12 isolated digital input, 8 isolated digital output
IOM-DI8O12-1A	Digital module, 8 isolated digital input, 12 isolated digital output
IOM-AI6O4-1A	Analog module, 6 Analog input , 4 Analog output
IOM-ENC-2A	Encoder module, 2 Counter/encoder input , Counter Range: 32-bit
IOM-AXIS-2A	Axis controller module, 2 Servo Drive
IOM-VA6C-1A	Axis controller module, 6 Servo Valve, Current output: 0...4A, LVDT
IOM-VA4V-1A	Axis controller module, 4 Servo Valve, Voltage output: +/- 10V

PC offline software

OFT-VST-MO	PC offline software VisiTouch CNC
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