

SPECTRA POWERBOX 110-SERIES

FEATURES

- Extreme compact, fanless Mini-PC
- Robust and attractive industry design
- Pending on model: with Intel® Pentium® N4200 or Celeron® N3350
- Wide range voltage: 9 – 48 V, with voltage monitoring
- Wall / VESA mount
opt. side board or DIN rail



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TECHNICAL DATA

SYSTEM

Processor	Onboard (depending on model) - Intel® Celeron® N3350 Dual Core bis 2,40 GHz - Intel® Pentium® N4200 Quad Core bis 2,50 GHz
Chipset	SOC (System on Chip)
BIOS	AMI 8 Mbit SPI Flash ROM
Memory	1 x 204-pin DDR3L SO-DIMM, max. 8 GB Spectra PowerBox 110-xx 1 x 8 GB, PC1866 DDR3L Spectra PowerBox 110-xx-WT 1 x 8 GB, PC1600 DDR3L, Wide-Temp.
Other functionalities	software programmable 1~255 sec. - Watchdog Timer: software programmable, 1~255 sec. System Reset - Instant reboot Technology (0.2 sec)

CONTROLLERS

Network	2 x Intel® i210IT Gigabit-LAN Port with WoL, Teaming, Jumbo Frame & PXE support
Audio	Realtek ALC888-GR
Graphics	Integrated Intel® HD Graphics N4200: 505 / N3350: 500 support 3 independant Displays DVI+VGA (from DVI-I) + one input from optional multi-I/O module

I/O-INTERFACES

Front	- 4 x USB3.0 - 1 x USB2.0 - 2 x RJ45 - AT/ATX-Switch - 1 x Line-out, 1 x Mic-in - Power switch - Remote Power On/Off & Reset
Behind service lid	- AT/ATX-Switch - Clear CMOS
Rear	- 2 x RS-232/422/485, with Auto Flow control - 1 x DVI-I (1.920 x 1.080 @ 60 Hz) - 2 x holes for antennas - 1 x universal bracket

EXPANSIONS & DRIVES

Expansion slots	- 2 x mPCIe (Full Size) (1 already taken by mSATA SSD) - 1 x function module interface - 1 x Multi I/O socket - 1 x SIM
HDD / SSD	1 x 2.5" SATA-6G HDD/SSD socket (free) Spectra PowerBox 110-xx 128 GB mSATA-6G, Buffer, Powerguard Spectra PowerBox 110-xx-WT 128 GB mSATA-6G, Buffer, Powerguard, Wide-Temp.
Additional drives	-

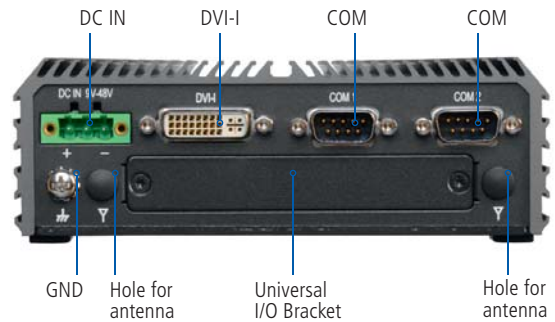
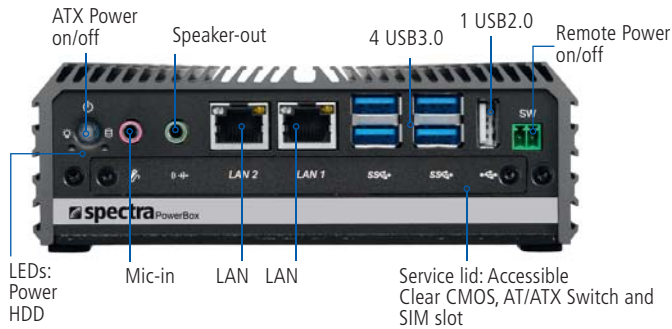
MECHANICAL & ENVIRONMENT CONDITIONS

Chassis	Aluminum special profile
Dimensions (WxHxD)	150 x 52,3 x 105 mm
Weight	0,87 kg
Mounting	Wall / VESA, opt. side-board, DIN-rail
Temperatures	Operating temperature: Spectra PowerBox 110-xx : 0 °C to +45°C Spectra PowerBox 110-xx-WT : -25°C to +60°C (with ambient air flow according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14) Storage temperature: -40°C to +80°C Relative humidity: 10% to 95%, non condensing
Power	AT, ATX 9 – 48 V DC 60 W Power adapter, 12 V / 5 A, 3-pin, C14
Operating system	Microsoft® Windows® 10 IoT Enterprise 2019 LTSB Entry (more upon request)
Warranty	24 months
Certification	- EMC: CE, FCC Class A - LVD EN62368-1
Packing list	- 1 x Power adapter - 1 x Power terminal block connector - 1 x Remote Power terminal block connector - 1 x Microsoft® Windows® Recovery medium - 2 x mounting rail kit for wall mount - 1 x DVI-I to VGA Adapter - 1 x pack of screws

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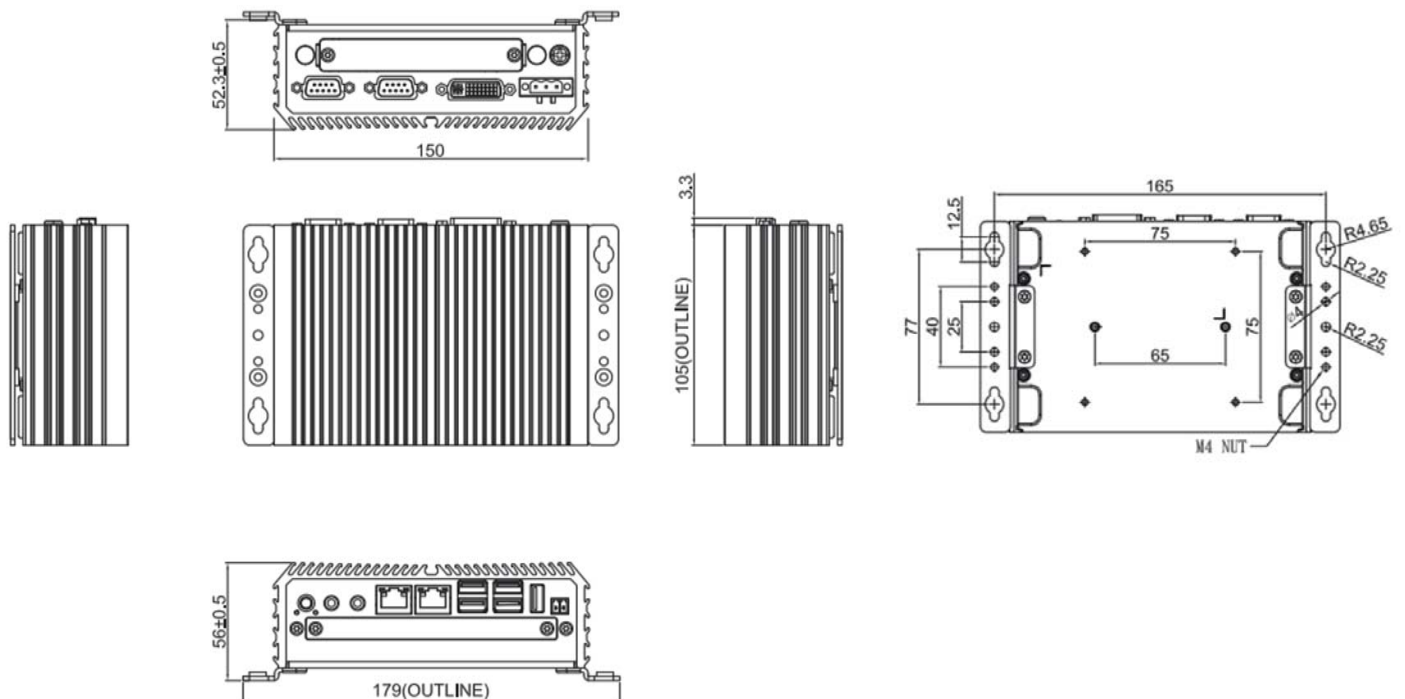
I/O INTERFACES, DIMENSIONS & ORDERING INFORMATION

I/O INTERFACES



DIMENSIONS

unit: mm



ORDERING INFORMATION

N° 157607 Spectra PowerBox 110-N42

Mini-PC, Intel® Pentium® N4200 QC,
8 GB, 128 GB SSD, Win 10

N° 157609 Spectra PowerBox 110-N42-WT

like PowerBox 110-N42, wide temp.

ORDERING INFORMATION

N° 157610 Spectra PowerBox 110-N33

Mini-PC, Intel® Celeron® N3350 DC,
8 GB, 128 GB SSD, Win 10

N° 157611 Spectra PowerBox 110-N33-WT

like PowerBox 110-N33, wide temp.

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ACCESSORIES

MOUNTING KITS



DIN rail kit



Side mount kit



Side Mount DIN-Rail-Kit



DOM Mounting-Bracket-Kit



VESA mount kit



ORDERING INFORMATION

N° 147895 DIN rail kit for PB 100

N° 149025 VESA mount kit for PB 100

N° 161253 Side mount kit for PB 100

N° 155669 Side mount DIN rail kit for PB100

N° 153456 DOM mounting bracket kit for PB 100

MINI-PCIE MODULES

N° 162366 PB-100-MEC-LAN-Set

2 x Gigabit-LAN, incl. universal bracket, cable

N° 153060 PB-100-Fieldbus conversion kit

for Hilscher CIFX-90-RE/Master/Slave,

incl. DOM hold



LAN

MULTI I/O MODULES

N° 164831 PB-100-COM-Set

2 x RS-232/422/485, incl. universal bracket

N° 164836 PB-100-LPT/PS2-Set

1 x LPT/PS2, incl. universal bracket

N° 164833 PB-100-DIO-Set

4x DI / 4x DO, incl. universal bracket

N° 164834 PB-100-DP-Set

1 x DP, incl. universal bracket

N° 164835 PB-100-DVI-Set

1 x DVI-D, incl. universal bracket

N° 164839 PB-100-HDMI-Set

1 x HDMI, incl. universal bracket

N° 164838 PB-100-VGA-Set

1 x VGA, incl. universal bracket

More upon request



COM



DIO



LPT/PS2



VGA



DVI



DP



HDMI

FUNCTION MODULE

N° 162131 CFM-PoE02*

PoE control function, Port 25.5 W pro port

*120W power supply is recommended (Art. N° 155057)



PoE