

# ITC PORTFOLIO #5

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This portfolio showcases a table of my research on the different types of motherboards used in computers. Beginning from the old AT motherboards which were created back in the 1980s, all the way to newer models such as EATX, BTX, etc... These motherboard types have a variety of uses and components that differentiate them from each other. The following table will now show you what I have found about these motherboards.

## TYPES OF MOTHERBOARDS:

FORM FACTOR	BUILD	CPU SLOTS	MEMORY SLOTS	CHIPSETS	BIOS	PCI SLOTS	SATA	BUILTIN FEATURES
AT	13.8 x 12 inches (351 x 305 mm)	1	4	Various, OLDER (Intel, VIA, ETC...)	Legacy BIOS	3 PCI	2 PATA	ISA ports, SIMM slots, Parallel and serial ports, etc...
ATX	12 x 9.6 inches (30.5 x 24.4 cm)	1-2	4-6	Various(Intel , AMD, ETC...)	UEFI BIOS	3-5 PCI/P CIE	4-6 SATA	USB, DIMM slots, PCI/PCIe slots, WIFI Ethernet, bluetooth etc...
BTX	12.8 x 10.5 inches (325 x 267 mm)	1	4	BTX-specific Intel chipsets	Legacy BIOS	3-7 PCIe	4 SATA	Low-profile, Integrated I/O Ports, Modern connectivity , etc...
E-ATX	12 x 13 inches (30.5 x 33 cm)	1-2	6-8	Various(Intel , AMD, ETC...)	UEFI BIOS	4-7 PCIe	6-8 SATA	USB, DIMM slots, PCIe slots, WIFI Ethernet, bluetooth etc...
LPX	13 x 9 inches (330 x 229 mm)	1	4	Various(Intel , IBM, etc... )	Legacy BIOS	2-3 ISA/P CI	2 PATA	Compact size, expansion slots, etc..

<b>M-ATX</b>	9.6 x 9.6 inches (24.4 x 24.4 cm)	1	2-4	Various(Intel , AMD, ETC...)	UEFI BIOS	2-3 PCIe	2-4 SATA	USB, DIMM slots, PCIe slots, WIFI Ethernet, bluetooth etc...
Mini-ITX	6.7 x 6.7 inches (17 x 17 cm)	1	2	Various, Low-power(Intel, AMD, ETC...)	UEFI BIOS	1 PCIe	2 SATA	USB, DIMM slots, PCIe slots, WIFI Ethernet, bluetooth etc...
Mini-ATX	11.2 x 8.2 inches	1	n/a	n/a	n/a	n/a	n/a	n/a
Pico BTX	8 x 10.5 inches (203 x 267 mm)	1	4	BTX-specific Intel chipsets	Legacy BIOS	1 PCIe	4 SATA	Compact size, modern connectivity , sata, pcie, etc...

PS: I could not find much about Mini-ATX form factor and only the size of it.

#### REFERENCES:

AT: <https://www.geeksforgeeks.org/difference-between-at-and-atx-motherboard/>

ATX:

[https://scidyne.com/ftp/ref\\_info/atx\\_201.pdf](https://scidyne.com/ftp/ref_info/atx_201.pdf)

BTX & PICO BTX:

<https://www.pctechguide.com/motherboards/btx-balanced-technology-extended-motherboard-form-factor>

E-ATX & M-ATX & Mini-ITX:

<https://www.pcguide.com/motherboard/faq/sizes-form-factor-explained/>

LPX:

<https://ecomputertips.com/glossary/lpx>

Mini ATX:

<https://www.lenovo.com/us/en/glossary/mini-atx/>