



# HISTORY OF MICROCOMPUTERS IN CZECHOSLOVAKIA

BORIS CHRISTIAN MAVRODIEV V.OA

# THE BEGINNINGS OF MICROCOMPUTERS IN CSSR

- Rise of microcomputers worldwide
  - Apple II (1977)
  - Atari computers (since 1979)
  - ZX Spectrum (1982)
  - Commodore 64 (1982)
- **CoCom embargoes**
  - Restriction of western technology exports to Eastern Bloc
    - Legal imports practically impossible (excluding **TUZEX** stores)
    - Domestic development & production of computers
  - Industrial espionage in the West by Eastern Bloc countries
    - Mainly on industrial mainframe computers (not Microcomputers)

# CZECHOSLOVAK MICROCOMPUTERS

- **IQ 151** (1983 - 1989)
- **PMD 85** (1985 - 1989)
- **PP 06**
  - Manufactured by **Tesla Piešťany**
  - Unlicensed clone of **IBM PC XT**
  - Used in industry for machinery controls, as terminals & data collectors etc.



# IQ 151 (1985 - 1989)

- Manufactured by **ZPA** (Závody průmyslové automatizace)
- 8-bit personal computer
  - Primarily for educational use (Czech schools)
  - Modular architecture with expansion boards (video, BASIC interpreter etc.)
  - Issues: overheating, limited performance, small market outside schools
- Hardware specifications:
  - **Processor:** Tesla MHB8080A 2 MHz (clone of Intel 8080 processor)
  - **Operating memory:** 32 kB of RAM



# PMD 85 (1985 - 1989)

- Developed & manufactured by **Tesla Piešťany**
- Specifically for Slovak schools
  - Incompatible with western standards
- Better specifications than IQ 151
  - **Operating memory:** 48 kB of RAM
- ROM expansion boards with games, programming languages interpreters, tape recorder connector etc.



# SOURCES

- [https://cs.wikipedia.org/wiki/IQ\\_151](https://cs.wikipedia.org/wiki/IQ_151)
- [https://cs.wikipedia.org/wiki/PMD\\_85](https://cs.wikipedia.org/wiki/PMD_85)
- [https://sk.wikipedia.org/wiki/Tesla\\_\(podnik\)](https://sk.wikipedia.org/wiki/Tesla_(podnik))



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ATTENTION