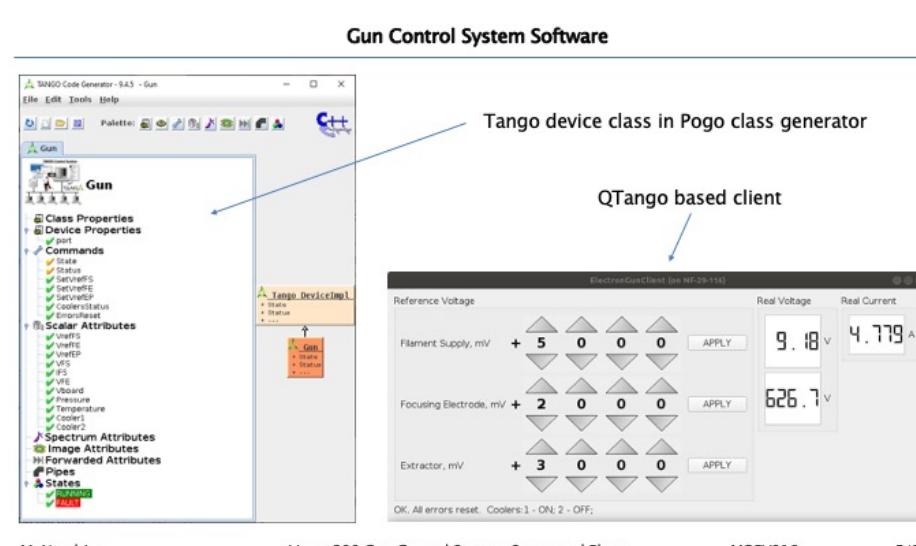
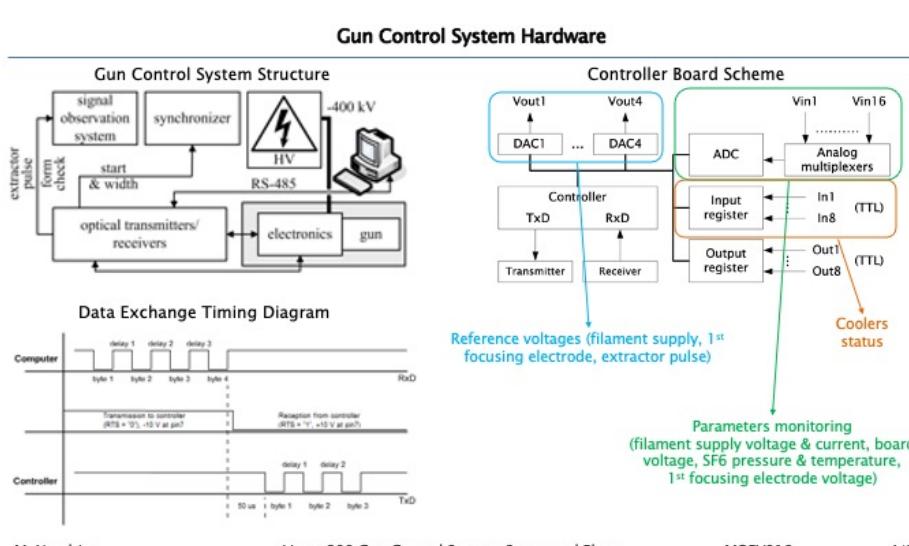
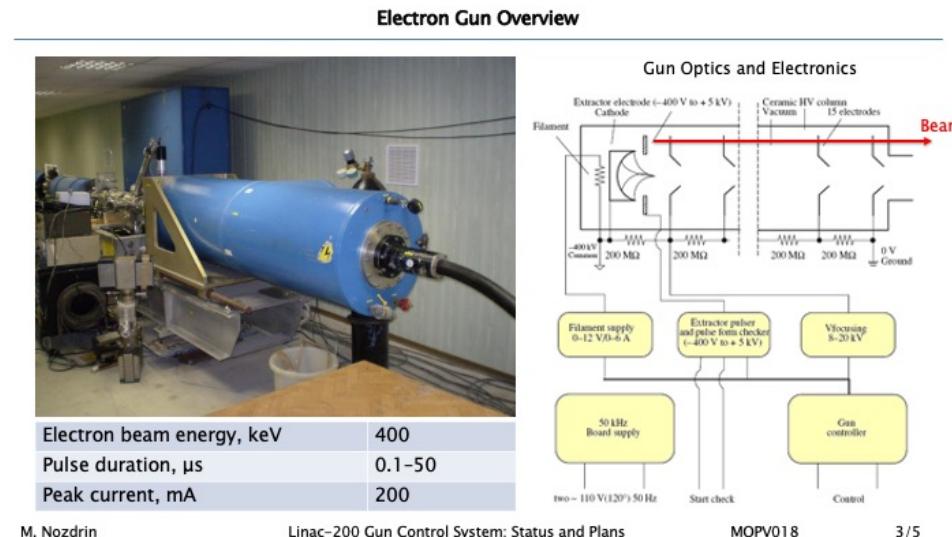
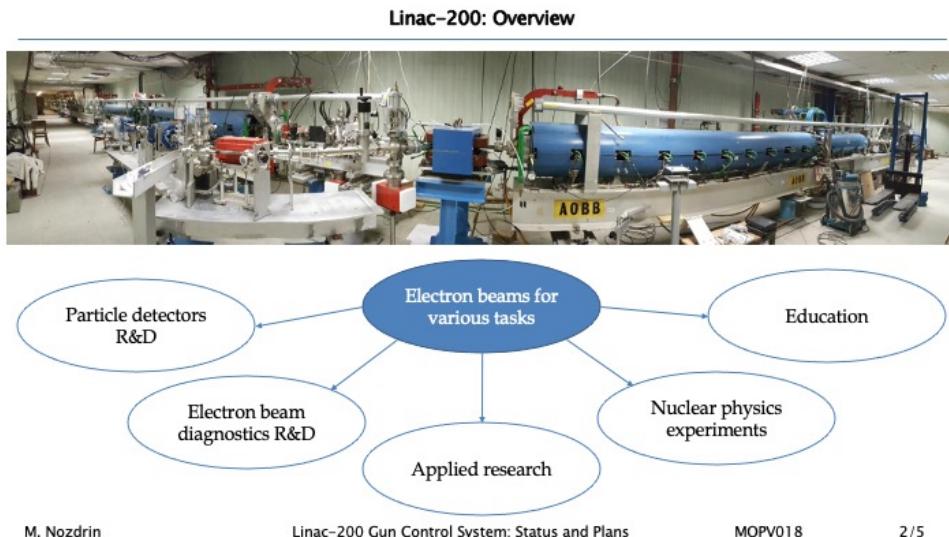


LINAC-200 GUN CONTROL SYSTEM: STATUS AND PLANS

MOPV018

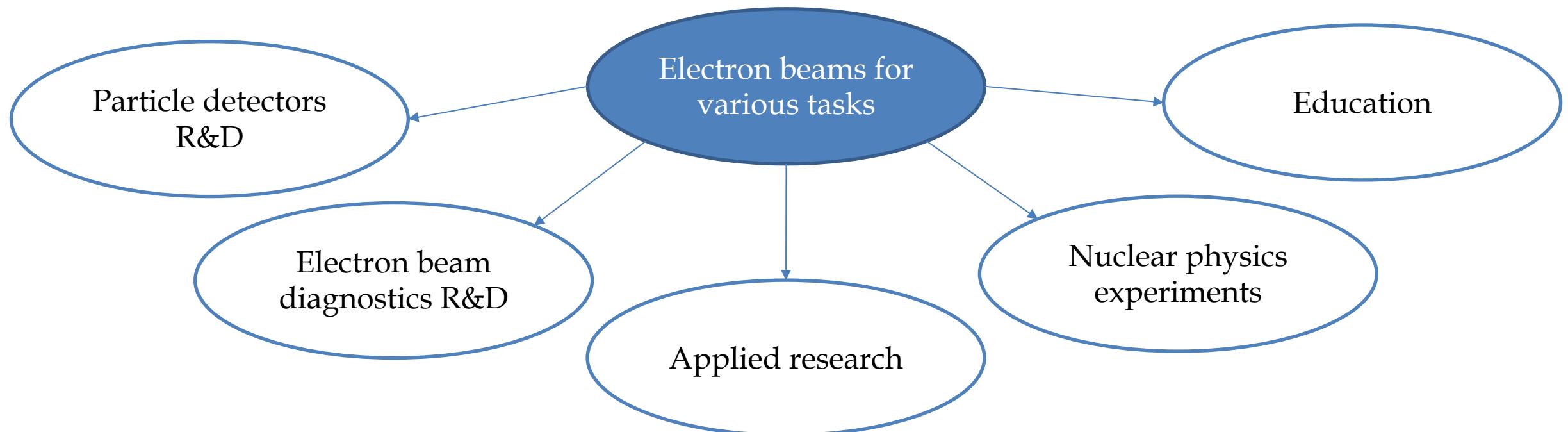
M. Nozdrin, V. Kobets, V. Minashkin, A. Trifonov
Joint Institute for Nuclear Research, Dubna, Russia



nozdrin@jinr.ru



Linac-200: Overview

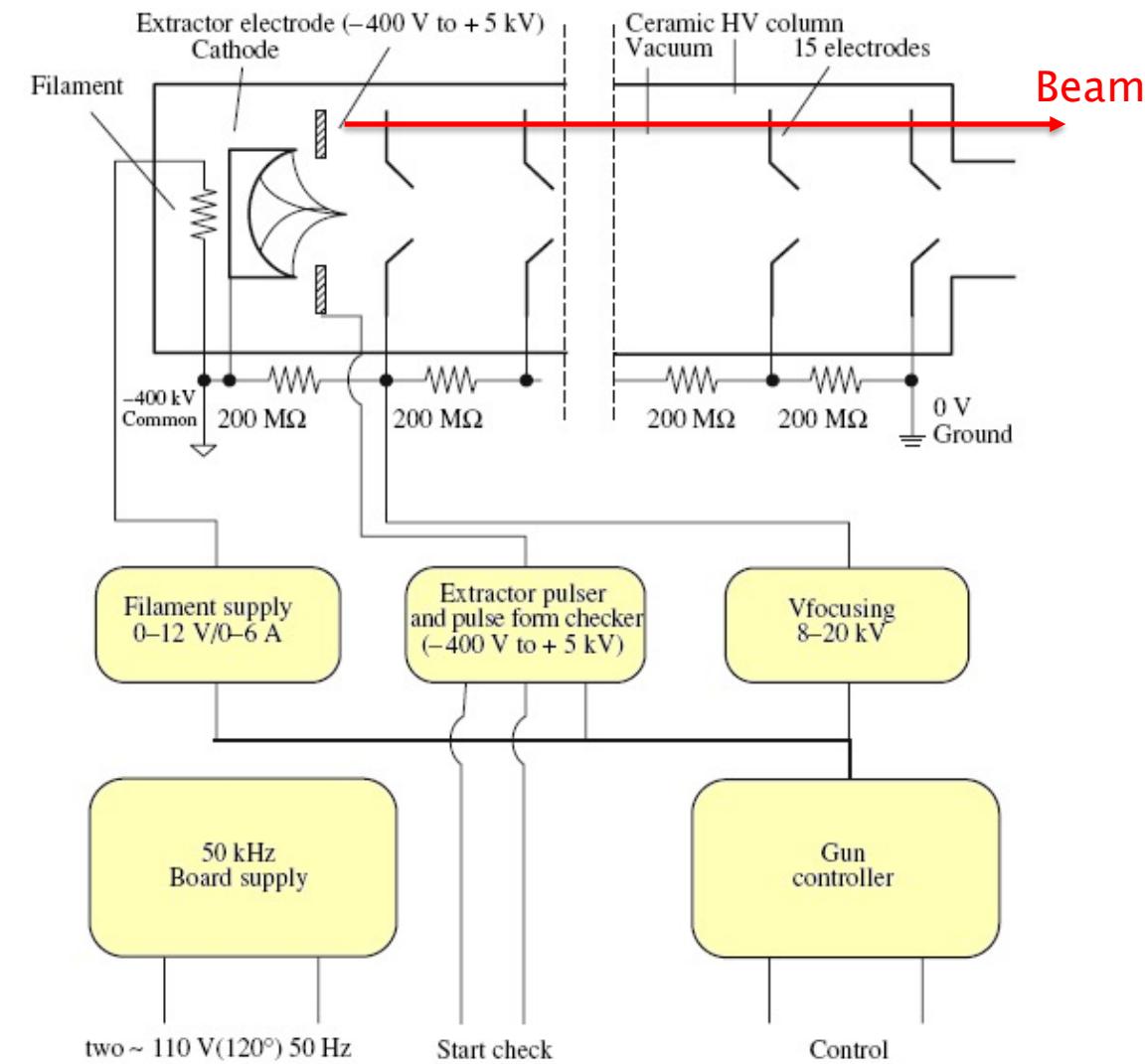


Electron Gun Overview



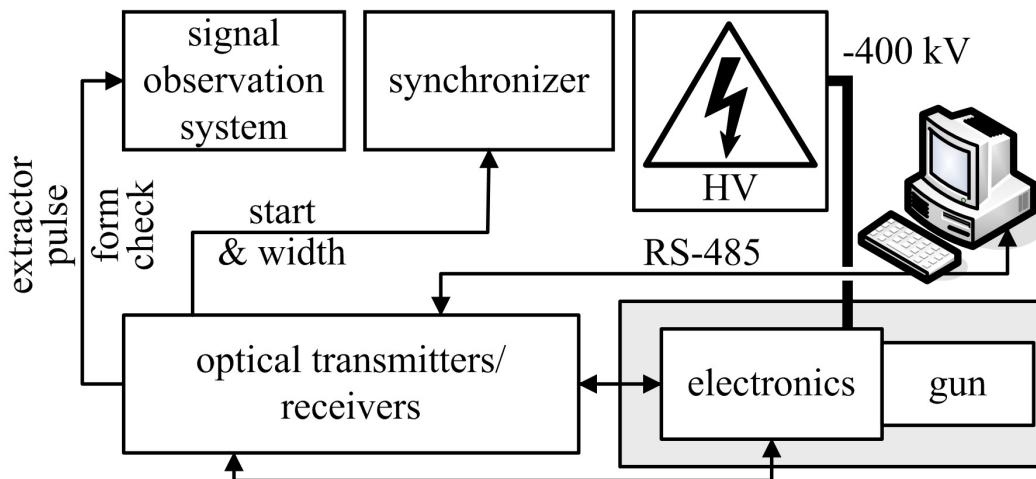
Electron beam energy, keV	400
Pulse duration, μs	0.1–50
Peak current, mA	200

Gun Optics and Electronics

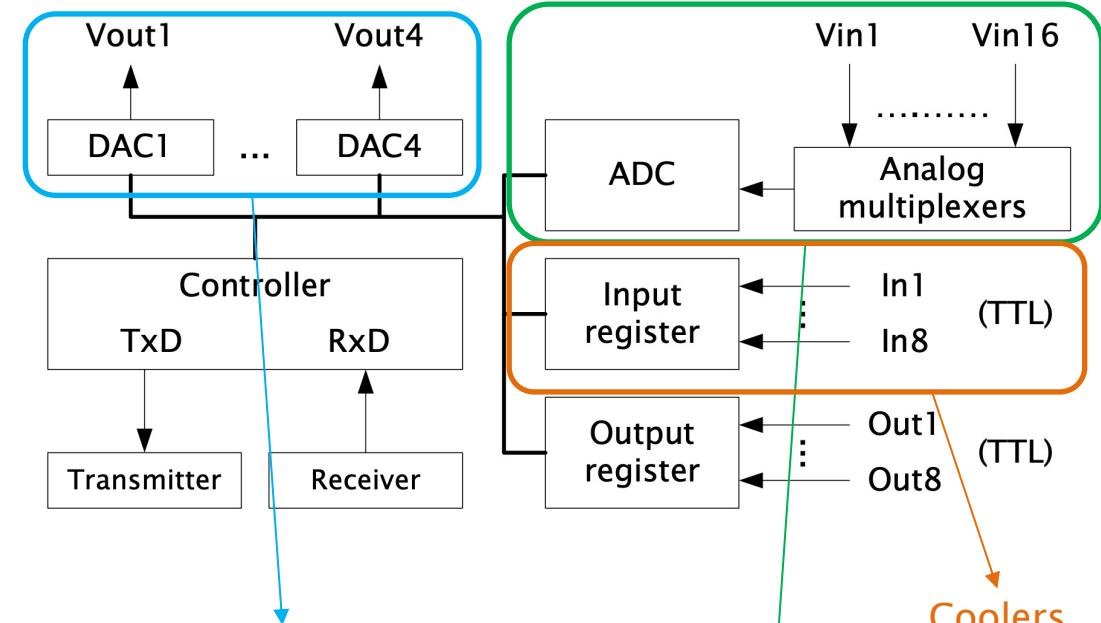


Gun Control System Hardware

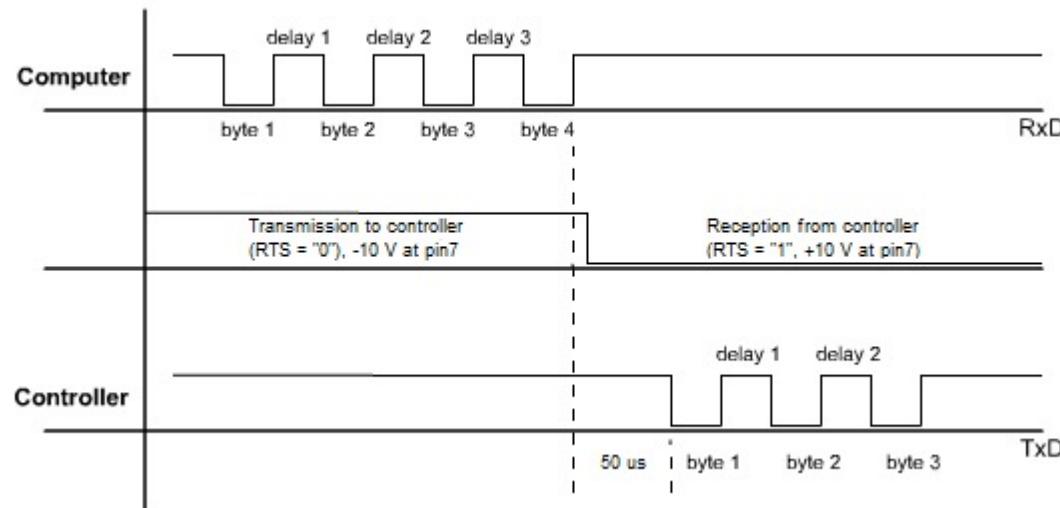
Gun Control System Structure



Controller Board Scheme



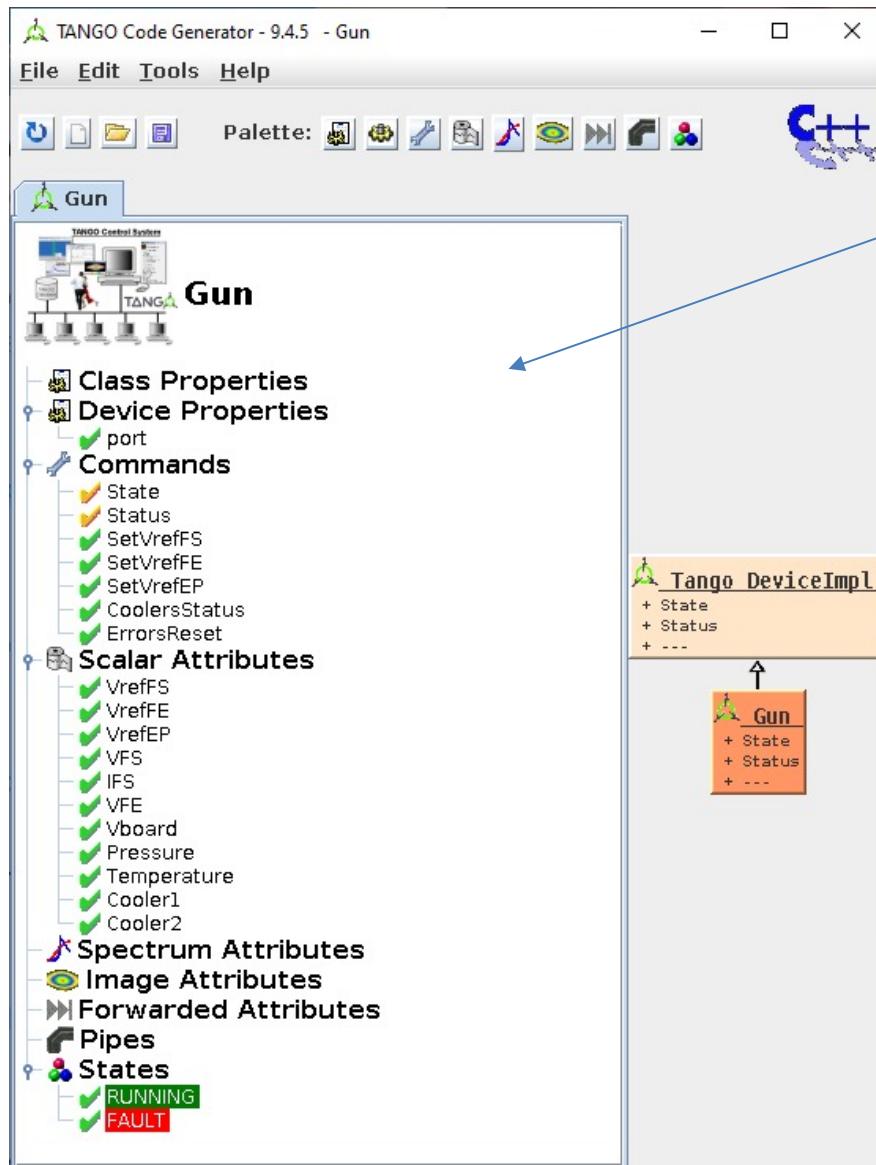
Data Exchange Timing Diagram



Reference voltages (filament supply, 1st focusing electrode, extractor pulse)

Parameters monitoring
(filament supply voltage & current, board voltage, SF6 pressure & temperature, 1st focusing electrode voltage)

Gun Control System Software



Tango device class in Pogo class generator

QTango based client

