



Data and Sensor Bus

Local Robotic

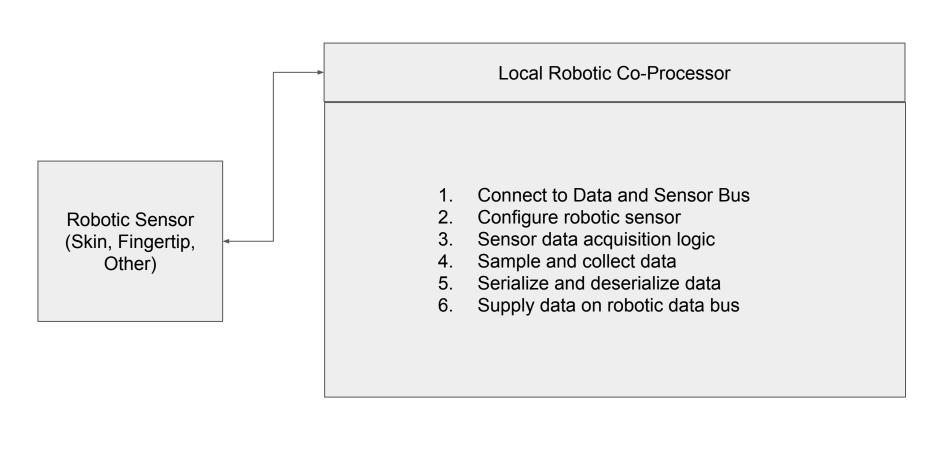
Co-Processor

 Connects all component block of platform together through a unified and standardized bus [control and data processor, local robotic co-processor]

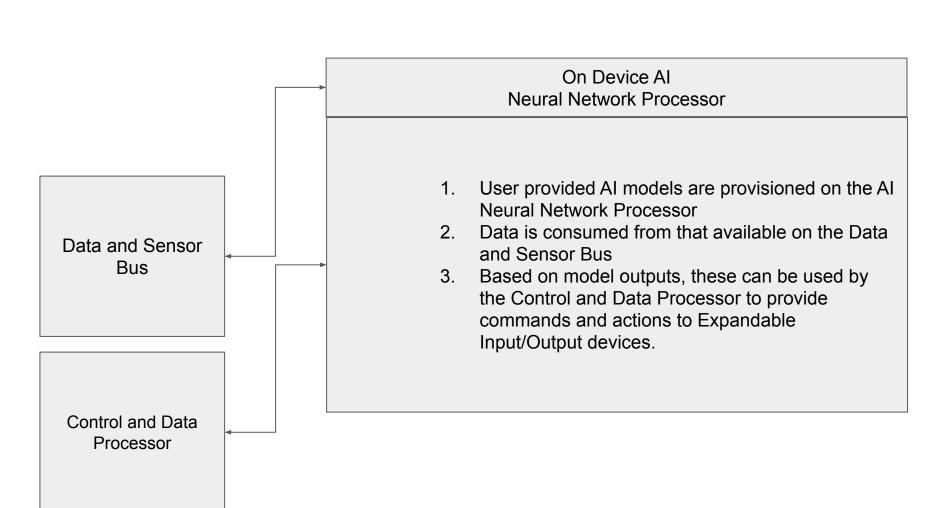
2. Provides power, and data communication buses such as USB, I2C, UART, USART, GPIO



Control and Data Processor



	Control and Data Processor
Data and Sensor Bus	 Connect to Data and Sensor Bus Configure all local co-processors Deserialize and serialize data from local co-processors, multiplex data streams to Expandable Input/Output and On-Device AI Perform commands and actions to devices attached on Expandable Input/Output Perform actions based on decisions from On-Device AI



Auxiliary Devices (Actuator, Manipulators, Robotic Hand, Robotic Feet,

Robotic Arms, etc)

Expandable Input/Output

- 1. Configure auxiliary device
- 2. Sample and collect data
- 3. Signal commands and actions from platform to auxiliary device

This block is used as a method to connect and control
Auxiliary devices such as actuators, manipulators and robotic
Peripherals based on the data collected through this block
And the main system, through decisions determined by
The processor and on-device AI neural network accelerator

	Data Aggregation
External Controller, Host or Computer	 Deserialize and serialize all data from platform Transmit bidirectional data from platform to external device External device can provide actions, commands and configuration to sensors, actuators, and manipulators