

## CORTEX Microcontroller and Joystick Quick Start Guide

4. Diagnostics Information: refer to the following chart for Joystick and CORTEX light patterns and meanings.

Robot	VEXnet	Game	
	Blip (yellow)		Startup – looking for USB device
	Fast (yellow)		Linking – Searching for VEXnet mate
	Fast (green)		Linked
	Slow (yellow)		Linked – Data quality reduced
	Solid (green)		Tethered
	Slow (red)		Fault: Lost Link – Searching for VEXnet mate

Robot [1]	VEXnet	Game	
(red)			Main Battery = <b>Dead</b> (<5.5v) or CORTEX Off [2]
(yellow)			Main Battery = <b>Low</b> (<6.5v) [2]
(green)			Main Battery = <b>Good</b>
Solid			<b>All Good:</b> Both Joysticks connected
Solid + 1 Blink			<b>All Good:</b> Tx1 Joystick connected
Fast (red) [3]			Fault: Low Backup Battery (0v–8v)

Note 1: Robot LED only works on Joystick when Linked

Note 2: Lowest CORTEX battery color latched at Joystick and CORTEX

Note 3: No Backup Battery only indicated if competition cable is connected.

Robot	VEXnet	Game [4]	
		Off	No Competition connection
		Solid (green)	Driver
		Fast (green)	Autonomous
		Fast (yellow)	Disabled

Note 4 : Game LED only used when the competition cable is connected.

Game LED only works on the Robot when Linked.

Joystick [5]	
(red)	Joystick Battery = <b>Dead</b> (<5.5v)
(yellow)	Joystick Battery = <b>Low</b> (<6.5v)
(green)	Joystick Battery = <b>Good</b>
Fast	Two Joysticks in use
Solid	One Joystick in use

Note 5 : Joystick LED only on Joystick.

Robot, VEXnet, and Game LED's show the same data [2]

