



Cypress Semiconductor Corporation, 198 Champion Court, San Jose, CA 95134. Tel: (408) 943-2600

PRODUCT SECURITY INFORMATION ALERT

PSIA: PIN191001

Date: March 06, 2019

Subject: CVE-2018-19860 - Vulnerability in Specific Cypress Bluetooth Controllers Containing Certain Firmware Versions

Alert Type: Minor

Description of Alert:

At a recent conference in Germany, researchers publicized a vulnerability in specific Cypress Bluetooth controllers containing certain firmware versions. The vulnerable Bluetooth controllers are missing a parameter range check, and as a result, hackers can send illegitimate link management protocol (LMP) messages (over the air) from one compromised device to another vulnerable device. These LMP messages may or may not be compliant with Bluetooth standards, and can cause unexpected behavior and potentially crash the target device.

This range check issue was eliminated in the firmware master branch prior to 2015. Bluetooth controllers with ROM images generated from a 2014 or earlier master branch may be affected. Bluetooth controllers with ROM images based on a 2015 or later master branch are not affected.

Potentially affected devices are listed below.

Alert Objective:

Notify customers of this vulnerability.

Part Numbers Affected: 61

See the attached 'Affected Parts List' file for a list of all part numbers affected by this notification.

The following Cypress Bluetooth controllers are included in this notification and may be affected depending on firmware.

Affected Part Numbers			
CYW20702	CYW20706	CYW20734	CYW4354A2
CYW20703	CYW20707	CYW4339	CYW89071
CYW20704	CYW20730	CYW43438	CYW89072
CYW20705	CYW20733	CYW4343W	CYW89335

Anticipated Impact:

Vulnerable Bluetooth controllers should be updated with current firmware.

Response Required:

This is an information announcement. Customers should determine if their designs include a potentially vulnerable Bluetooth controller and firmware revision, and if so, update to current firmware.

For assistance or additional information regarding this notification, contact your local sales representative.

Sincerely,

Cypress PCN Administration

Item	Marketing Part Number	Item	Marketing Part Number
1	CYW20702A1KWFBG	32	CYW20730A1KMLGT
2	CYW20702A1KWFBGT	33	CYW20730A2KFBG
3	CYW20702B0KWFBG	34	CYW20730A2KFBGT
4	CYW20702B0KWFBGT	35	CYW20730A2KML2G
5	CYW20703UA1KFFB1G	36	CYW20730A2KML2GT
6	CYW20703UA1KFFB1GT	37	CYW20733A1KFB1GT
7	CYW20704UA1KFFB1G	38	CYW20733A2KFB1G
8	CYW20704UA1KFFB1GT	39	CYW20733A2KFB1GT
9	CYW20704UA2KFFB1G	40	CYW20733A2KML1G
10	CYW20704UA2KFFB1GT	41	CYW20733A2KML1GT
11	CYW20705A1KWFBGT	42	CYW20733A3KFB1G
12	CYW20705B0KWFBG	43	CYW20733A3KFB1GT
13	CYW20705B0KWFBGT	44	CYW20733A3KFB2GT
14	CYW20706UA1KFFB1G	45	CYW20733A3KML1G
15	CYW20706UA1KFFB1GT	46	CYW20733A3KML1GT
16	CYW20706UA1KFFB4G	47	CYW20734UA1KFFB3G
17	CYW20706UA2KFFB4G	48	CYW20734UA1KFFB3GT
18	CYW20706UA2KFFB4GT	49	CYW20734UA2KFFB3G
19	CYW20707A2KUBGT	50	CYW20734UA2KFFB3GT
20	CYW20707UA1KFFB1G	51	CYW43438KUBGT
21	CYW20707UA1KFFB4G	52	CYW4343W1KUBGT
22	CYW20707UA1KFFB4GT	53	CYW4343WKUBGT
23	CYW20707UA2KFFB4G	54	CYW4343WKWBGT
24	CYW20707UA2KFFB4GT	55	CYW4354KKWBGT
25	CYW20707VA1PKWBGT	56	CYW4354XKUBGT
26	CYW20707VA2PKWBGT	57	CYW89071A1CUBXGT
27	CYW20730A1KFBG	58	CYW89072BRFB5G
28	CYW20730A1KFBGT	59	CYW89072BRFB5GT
29	CYW20730A1KML2G	60	CYW89335L2CUBGT
30	CYW20730A1KML2GT	61	CYW89335LCUBGT
31	CYW20730A1KMLG		