

U9405A-05

Modification Recommended Service Note

Supersedes:
NONE

U9405A – i1000 Small Foot Print Inline and OffLine systems

Serial Numbers: ALL

Manufacturing ID Number: NONE

The Problem – i1000 software cannot detect Fixture Control Board sensors states

Parts Required:

P/N Description Qty.

NONE

ADMINISTRATIVE INFORMATION

ACTION	<input type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS			
CATEGORY:	<input checked="" type="checkbox"/> AGREEABLE TIME	LABOR:	0.5 Hours		
LOCATION	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE	SERVICE:	<input type="checkbox"/> RETURN	USED	<input type="checkbox"/> RETURN
CATEGORY:	<input type="checkbox"/> ON-SITE (active On-site contract required)	INVENTORY:	<input type="checkbox"/> SCRAP	PARTS:	<input type="checkbox"/> SCRAP
	<input type="checkbox"/> SERVICE CENTER		<input type="checkbox"/> SEE TEXT		<input type="checkbox"/> SEE TEXT
	<input type="checkbox"/> CHANNEL PARTNERS				
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	13-Aug-2022		
	<input type="checkbox"/> Calibration Required	PRODUCT LINE:	80		
	<input checked="" type="checkbox"/> Calibration NOT Required	AUTHOR:	Kwan Wee Lee		

ADDITIONAL INFORMATION:

Situation:

Due to the cut in of Windows 10 version to 2004 and above on all new i1000 and FlexiCore systems, the Cypress chip firmware on the Fixture Control Board had been updated from 0404 to 0405 to support the new digital signatures requirements by Win10.

The version of Cypress USB driver that supports Win7 32bit is version 3.5.7. This will not work with the new firmware version 0405. I1000 software will not be able to detect any states of the Fixture Control board IO. This affects all versions of the i1000 software.

One			Two			Three			Six		
Function	ON	OFF	Function	ON	OFF	Function	ON	OFF	Function	ON	OFF
DUT In Sensor	1	1	Rear Door Sensor	1	1	Loader time out	1	1	Board Position Sensor	1	1
	2	2	Fixture Position Sensor	2	2	Un-loader time out	2	2	Waiting for Loader state	2	2
Slow Down Sensor	3	3	UP Button	3	3	DUT input time out	3	3	Waiting for Unloader state	3	3
Conveyor Up Sensor	4	4	Conveyor Up/Down button	4	4	DUT not aligned time out	4	4	BARCODE_OK	4	4
Conveyor Down Sensor	5	5	Emergency Button	5	5	DUT output time out	5	5	ERRBARCODE	5	5
FnDownSensor	6	6	Fixture Engage Button	6	6	BYPASS mode error	6	6	BARCODE_ENB	6	6
Press Up position Sensor	7	7	Auto/Manual Button	7	7	Front/Rear door is not closed	7	7		7	7
Press Middle position Sensor	8	8	Board Alignment Sensor	8	8	Slow-down sensor time out	8	8	DUAL_STAGE_SENSEN	8	8
Press Down position Sensor	9	9	DOWN Button	9	9	Board Alignment Sensor Error	9	9		9	9
Fixture Lock Sensor	10	10	BYPASS Button	10	10	Board stopper time out	10	10		10	10
Stopper UP sensor	11	11	ICT_READY	11	11	Conveyor time out	11	11		11	11
Stopper DOWN Sensor	12	12	LOAD_AVAILABLE	12	12	Repeat Cycle End	12	12		12	12
DUT Out Sensor	13	13	ICT_AVAILABLE	13	13	SETERROR	13	13		13	13
DUT at Stopper Sensor	14	14	UNLOAD_READY	14	14	Two Board Error	14	14		14	14
Fixture Unlock Sensor	15	15		15	15	System Ready in AutoMode	15	15		15	15
Front Door sensor	16	16		16	16	Unloader time out for Bypass	16	16		16	16

Solution/Action:

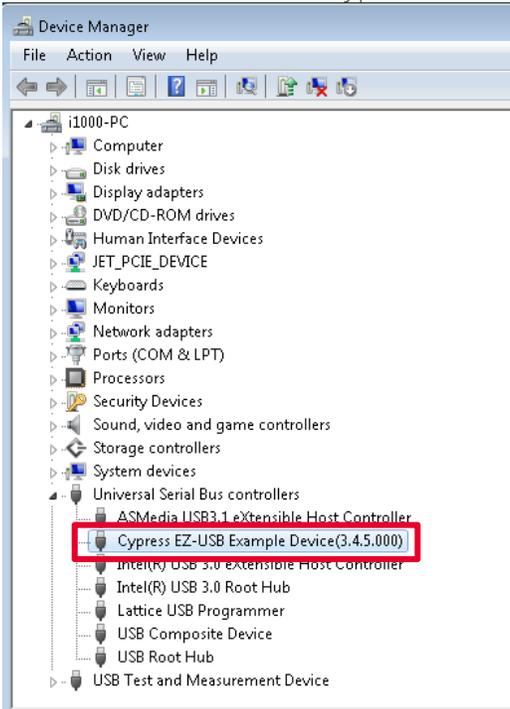
The new firmware change requires an upgrade of the Cypress USB driver to version 3.4.5, which supports 64bit operating system. The new driver supports all versions of the i1000 software, and both Win 7 and Win 10 Operating systems.

If your system is using a new version of the Fixture Control Board with firmware 0405, you must upgrade the Cypress USB driver to version 3.4.5.



Link to Download Cypress USB Driver version 3.4.5:
<https://1drv.ms/u/s!AgAhfq7b1qZ6ijGswNj7laSlwUR?e=UD1rGM>

Check the version of the Cypress USB Driver using Device manager:



Revision History:

Date	Service Note Revision	Author	Reason for Change
13 Aug 2021	01	Kwan Wee Lee	As Published