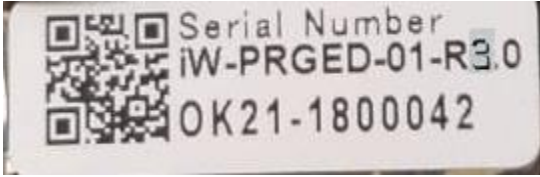


Product Change Notice



iWave PCN Number	PCN00012
Document Number	iW-PRGED-EC-01-R2.0-REL1.0-PCN00012
Notification Date	29 th April 2021
Title of Change	Feature enhancement on ZU19/17/11 Development kit carrier board
Affected iWave Product Part Numbers	Refer the Table 1 .
Type of Change	PCB upgraded for feature enhancement.
Description/ Reason of the change	<p>Feature Enhancement:</p> <ul style="list-style-type: none"> For better GTY transceiver & PL IO usage, Carrier board FMC+ Connector pinout is updated. Refer Table 2 for the changed pinout. 3 LVDS pairs on Carrier board FMC Connector is moved to FMC+ connector to support wider FMC modules. Refer Table 3 for the changed pinout. I2C connection from I2C bus switch to some of the on-board I2C devices are modified to avoid I2C address collision. Refer Table 4 for modified I2C connections.
Other affected items	<p>Software BSP and FPGA Design changes:</p> <ul style="list-style-type: none"> I2C bus number to be modified to access the I2C devices as per the modified I2C connections. If Transceivers & PL IOs are used from FMC+/FMC connector, FPGA design & Software need to modified as per new connection. <p>Mechanical:</p> <ul style="list-style-type: none"> There is no mechanical dimension changes in the board except few components are rearranged.

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Method of Identification	<p>In all the ZU19/17/11 DevKit carrier board, serial number label is pasted as shown below.</p>  <p>In the label, See the first line of serial number and find the version number.</p> <p>iW-PRGED-01-R3.0</p> <ul style="list-style-type: none">• R3.0 represents the newer version of ZU19/17/11 DevKit carrier board <p><i>Note: If serial number shows R2.0, then it is older version of ZU19/17/11 DevKit carrier board.</i></p>
Batch numbers affected by the change	All ZU19/17/11 DevKit carrier board which are R2.0 version.
Product availability	New enhanced R3.0 version carrier boards available from May2021.
New iWave Product Part Number	Refer the Table 1 .
PCN effective from	01 st May 2021
Contact Information	Email id: mktg@iwavesystems.com

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Table 1 iWave Product Part Number

Affected iWave Product Part Numbers	Equivalent New iWave Product Part Numbers
iW-G35D-11EG-4E004G-E008G-LCB	iW-G35D-11EG-4E004G-E008G-LCG
iW-G35D-17EG-4E004G-E008G-LCB	iW-G35D-17EG-4E004G-E008G-LCG
iW-G35D-19EG-4E004G-E008G-LCB	iW-G35D-19EG-4E004G-E008G-LCG
iW-G35D-19EG-4E004G-E008G-LCD	iW-G35D-19EG-4E004G-E008G-LCF

Table 2 FMC+ Connector Pinout change

FMC+ Connector Pin Number	FMC+ Connector Pin Name	R2.0 Version Carrier Board	R3.0 Version Carrier Board
High Speed Transceivers:			
C2	DPO_C2M_P	GTHTXP0_231	GTYTXP0_129
C3	DPO_C2M_N	GTHTXN0_231	GTYTXN0_129
C6	DPO_M2C_P	GTHRXP0_231	GTYRXP0_129
C7	DPO_M2C_N	GTHRNX0_231	GTYRXN0_129
A22	DP1_C2M_P	GTHTXP1_231	GTYTXP1_129
A23	DP1_C2M_N	GTHTXN1_231	GTYTXN1_129
A2	DP1_M2C_P	GTHRXP1_231	GTYRXP1_129
A3	DP1_M2C_N	GTHRNX1_231	GTYRXN1_129
A26	DP2_C2M_P	GTHTXP2_231	GTYTXP2_129
A27	DP2_C2M_N	GTHTXN2_231	GTYTXN2_129
A6	DP2_M2C_P	GTHRXP2_231	GTYRXP2_129
A7	DP2_M2C_N	GTHRNX2_231	GTYRXN2_129
A30	DP3_C2M_P	GTHTXP3_231	GTYTXP3_129
A31	DP3_C2M_N	GTHTXN3_231	GTYTXN3_129
A10	DP3_M2C_P	GTHRXP3_231	GTYRXP3_129

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FMC+ Connector Pin Number	FMC+ Connector Pin Name	R2.0 Version Carrier Board	R3.0 Version Carrier Board
A11	DP3_M2C_N	GTHRXN3_231	GTYRXN3_129
D4	GBTCLK0_M2C_P	GTREFCLKOP_231	GTREFCLKOP_129
D5	GBTCLK0_M2C_N	GTREFCLKON_231	GTREFCLKON_129
A34	DP4_C2M_P	GTHTXP0_229	GTYTXP0_130
A35	DP4_C2M_N	GTHTXN0_229	GTYTXN0_130
A14	DP4_M2C_P	GTHRXP0_229	GTYRXP0_130
A15	DP4_M2C_N	GTHRXN0_229	GTYRXN0_130
A38	DP5_C2M_P	GTHTXP1_229	GTYTXP1_130
A39	DP5_C2M_N	GTHTXN1_229	GTYTXN1_130
A18	DP5_M2C_P	GTHRXP1_229	GTYRXP1_130
A19	DP5_M2C_N	GTHRXN1_229	GTYRXN1_130
B36	DP6_C2M_P	GTHTXP2_229	GTYTXP2_130
B37	DP6_C2M_N	GTHTXN2_229	GTYTXN2_130
B16	DP6_M2C_P	GTHRXP2_229	GTYRXP2_130
B17	DP6_M2C_N	GTHRXN2_229	GTYRXN2_130
B32	DP7_C2M_P	GTHTXP3_229	GTYTXP3_130
B33	DP7_C2M_N	GTHTXN3_229	GTYTXN3_130
B12	DP7_M2C_P	GTHRXP3_229	GTYRXP3_130
B13	DP7_M2C_N	GTHRXN3_229	GTYRXN3_130
B20	GBTCLK1_M2C_P	GTREFCLKOP_229	GTREFCLKOP_130
B21	GBTCLK1_M2C_N	GTREFCLKON_229	GTREFCLKON_130
B28	DP8_C2M_P	GTHTXP0_228	GTHTXP0_231
B29	DP8_C2M_N	GTHTXN0_228	GTHTXN0_231
B8	DP8_M2C_P	GTHRXP0_228	GTHRXP0_231
B9	DP8_M2C_N	GTHRXN0_228	GTHRXN0_231

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FMC+ Connector Pin Number	FMC+ Connector Pin Name	R2.0 Version Carrier Board	R3.0 Version Carrier Board
B24	DP9_C2M_P	GTHTXP1_228	GTHTXP1_231
B25	DP9_C2M_N	GTHTXN1_228	GTHTXN1_231
B4	DP9_M2C_P	GTHRXP1_228	GTHRXP1_231
B5	DP9_M2C_N	GTHRXN1_228	GTHRXN1_231
Z24	DP10_C2M_P	GTHTXP2_228	GTHTXP2_231
Z25	DP10_C2M_N	GTHTXN2_228	GTHTXN2_231
Y10	DP10_M2C_P	GTHRXP2_228	GTHRXP2_231
Y11	DP10_M2C_N	GTHRXN2_228	GTHRXN2_231
Y26	DP11_C2M_P	GTHTXP3_228	GTHTXP3_231
Y27	DP11_C2M_N	GTHTXN3_228	GTHTXN3_231
Z12	DP11_M2C_P	GTHRXP3_228	GTHRXP3_231
Z13	DP11_M2C_N	GTHRXN3_228	GTHRXN3_231
L12	GBTCLK2_M2C_P	GTREFCLKOP_228	GTREFCLKOP_231
L13	GBTCLK2_M2C_N	GTREFCLKON_228	GTREFCLKON_231
M26	DP16_C2M_P	GTYTXP0_129	GTHTXP0_229
M27	DP16_C2M_N	GTYTXN0_129	GTHTXN0_229
Z32	DP16_M2C_P	GTYRXP0_129	GTHRXP0_229
Z33	DP16_M2C_N	GTYRXN0_129	GTHRXN0_229
M30	DP17_C2M_P	GTYTXP1_129	GTHTXP1_229
M31	DP17_C2M_N	GTYTXN1_129	GTHTXN1_229
Y34	DP17_M2C_P	GTYRXP1_129	GTHRXP1_229
Y35	DP17_M2C_N	GTYRXN1_129	GTHRXN1_229
M34	DP18_C2M_P	GTYTXP2_129	GTHTXP2_229
M35	DP18_C2M_N	GTYTXN2_129	GTHTXN2_229
Z36	DP18_M2C_P	GTYRXP2_129	GTHRXP2_229

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FMC+ Connector Pin Number	FMC+ Connector Pin Name	R2.0 Version Carrier Board	R3.0 Version Carrier Board
Z37	DP18_M2C_N	GTYRXN2_129	GTHRXN2_229
M38	DP19_C2M_P	GTYTXP3_129	GTHTXP3_229
M39	DP19_C2M_N	GTYTXN3_129	GTHTXN3_229
Y38	DP19_M2C_P	GTYRXP3_129	GTHRXP3_229
Y39	DP19_M2C_N	GTYRXN3_129	GTHRXN3_229
L4	GBTCLK4_M2C_P	GTREFCLKOP_129	GTREFCLKOP_229
L5	GBTCLK4_M2C_N	GTREFCLKON_129	GTREFCLKON_229
Z8	DP20_C2M_P	GTYTXP0_130	GTHTXP0_228
Z9	DP20_C2M_N	GTYTXN0_130	GTHTXN0_228
M14	DP20_M2C_P	GTYRXP0_130	GTHRXP0_228
M15	DP20_M2C_N	GTYRXN0_130	GTHRXN0_228
Y6	DP21_C2M_P	GTYTXP1_130	GTHTXP1_228
Y7	DP21_C2M_N	GTYTXN1_130	GTHTXN1_228
M10	DP21_M2C_P	GTYRXP1_130	GTHRXP1_228
M11	DP21_M2C_N	GTYRXN1_130	GTHRXN1_228
Z4	DP22_C2M_P	GTYTXP2_130	GTHTXP2_228
Z5	DP22_C2M_N	GTYTXN2_130	GTHTXN2_228
M6	DP22_M2C_P	GTYRXP2_130	GTHRXP2_228
M7	DP22_M2C_N	GTYRXN2_130	GTHRXN2_228
Y2	DP23_C2M_P	GTYTXP3_130	GTHTXP3_228
Y3	DP23_C2M_N	GTYTXN3_130	GTHTXN3_228
M2	DP23_M2C_P	GTYRXP3_130	GTHRXP3_228
M3	DP23_M2C_N	GTYRXN3_130	GTHRXN3_228
Z20	GBTCLK5_M2C_P	GTREFCLKOP_130	GTREFCLKOP_228
Z21	GBTCLK5_M2C_N	GTREFCLKON_130	GTREFCLKON_228

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FMC+ Connector Pin Number	FMC+ Connector Pin Name	R2.0 Version Carrier Board	R3.0 Version Carrier Board
LVDS/SE PL IOs			
C10	LA06_P	PL_B8_LVDS93_L11P	PL_AV12_LVDS67_L7P_QBC
C11	LA06_N	PL_A8_LVDS93_L11N	PL_AW12_LVDS67_L7N_QBC
C14	LA10_P	PL_E6_LVDS93_L9P	PL_AT13_LVDS67_L11P_GC
C15	LA10_N	PL_D6_LVDS93_L9N	PL_AT12_LVDS67_L11N_GC
C18	LA14_P	PL_B7_LVDS93_L10P	PL_AR15_LVDS67_L15P
C19	LA14_N	PL_A7_LVDS93_L10N	PL_AR14_LVDS67_L15N
C22	LA18_P_CC	PL_AT11_LVDS67_L12P_GC	PL_AM13_LVDS67_L23P
C23	LA18_N_CC	PL_AT10_LVDS67_L12N_GC	PL_AN13_LVDS67_L23N
C26	LA27_P	PL_AW8_LVDS67_L3P	PL_J8_LVDS93_L2P
C27	LA27_N	PL_AY8_LVDS67_L3N	PL_H8_LVDS93_L2N
D8	LA01_P_CC	PL_AL14_LVDS67_L21P	PL_BB9_LVDS67_L2P
D9	LA01_N_CC	PL_AM14_LVDS67_L21N	PL_BB8_LVDS67_L2N
D11	LA05_P	PL_D9_LVDS93_L12P	PL_BB5_LVDS67_L6P
D12	LA05_N	PL_C9_LVDS93_L12N	PL_BB4_LVDS67_L6N
D14	LA09_P	PL_G6_LVDS93_L1P	PL_AV9_LVDS67_L10P_QBC
D15	LA09_N	PL_F6_LVDS93_L1N	PL_AV8_LVDS67_L10N_QBC
D17	LA13_P	PL_J8_LVDS93_L2P	PL_AP10_LVDS67_L14P_GC
D18	LA13_N	PL_H8_LVDS93_L2N	PL_AR10_LVDS67_L14N_GC
D20	LA17_P_CC	PL_BA8_LVDS67_L4P_DBC	PL_AL14_LVDS67_L21P
D21	LA17_N_CC	PL_BA7_LVDS67_L4N_DBC	PL_AM14_LVDS67_L21N
D23	LA23_P	PL_AR13_LVDS67_L13P_GC	PL_D9_LVDS93_L12P
D24	LA23_N	PL_AR12_LVDS67_L13N_GC	PL_C9_LVDS93_L12N
D26	LA26_P	PL_BB5_LVDS67_L6P	PL_E6_LVDS93_L9P
D27	LA26_N	PL_BB4_LVDS67_L6N	PL_D6_LVDS93_L9N

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FMC+ Connector Pin Number	FMC+ Connector Pin Name	R2.0 Version Carrier Board	R3.0 Version Carrier Board
B20	CLK1_M2C_P	PL_BB9_LVDS67_L2P	PL_B13_LVDS68_L16P_QBC
B21	CLK1_M2C_N	PL_BB8_LVDS67_L2N	PL_A12_LVDS68_L16N_QBC
G6	LA00_P_CC	PL_D13_LVDS68_L15P	PL_AW9_LVDS67_L1P_DBC
G7	LA00_N_CC	PL_C13_LVDS68_L15N	PL_AY9_LVDS67_L1N_DBC
G9	LA03_P	PL_G8_LVDS93_L6P_HDGC	PL_BA8_LVDS67_L4P_DBC
G10	LA03_N	PL_F8_LVDS93_L6N_HDGC	PL_BA7_LVDS67_L4N_DBC
G12	LA08_P	PL_BA6_LVDS67_L5P	PL_AW11_LVDS67_L9P
G13	LA08_N	PL_BB6_LVDS67_L5N	PL_AW10_LVDS67_L9N
G15	LA12_P	PL_AJ14_LVDS67_L24P	PL_AR13_LVDS67_L13P_GC
G16	LA12_N	PL_AK14_LVDS67_L24N	PL_AR12_LVDS67_L13N_GC
G18	LA16_P	PL_AT13_LVDS67_L11P_GC	PL_AM11_LVDS67_L17P
G19	LA16_N	PL_AT12_LVDS67_L11N_GC	PL_AN11_LVDS67_L17N
G21	LA20_P	PL_AV12_LVDS67_L7P_QBC	PL_P16_LVDS68_L2P
G22	LA20_N	PL_AW12_LVDS67_L7N_QBC	PL_N16_LVDS68_L2N
G24	LA22_P	PL_AW9_LVDS67_L1P_DBC	PL_G8_LVDS93_L6P_HDGC
G25	LA22_N	PL_AY9_LVDS67_L1N_DBC	PL_F8_LVDS93_L6N_HDGC
G27	LA25_P	PL_J9_LVDS93_L3P	PL_G6_LVDS93_L1P
G28	LA25_N	PL_H9_LVDS93_L3N	PL_F6_LVDS93_L1N
G30	LA29_P	PL_F9_LVDS93_L4P	PL_J9_LVDS93_L3P
G31	LA29_N	PL_E9_LVDS93_L4N	PL_H9_LVDS93_L3N
G33	LA31_P	PL_AM11_LVDS67_L17P	PL_F9_LVDS93_L4P
G34	LA31_N	PL_AN11_LVDS67_L17N	PL_E9_LVDS93_L4N
G36	LA33_P	PL_AU11_LVDS67_L8P	PL_C6_LVDS94_L7P_HDGC
G37	LA33_N	PL_AV11_LVDS67_L8N	PL_C5_LVDS94_L7N_HDGC
H4	CLK0_M2C_P	NC	PL_P15_LVDS68_L1P_DBC

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FMC+ Connector Pin Number	FMC+ Connector Pin Name	R2.0 Version Carrier Board	R3.0 Version Carrier Board
H5	CLK0_M2C_N	NC	PL_N15_LVDS68_L1N_DBC
H7	LA02_P	PL_AW11_LVDS67_L9P	PL_AW8_LVDS67_L3P
H8	LA02_N	PL_AW10_LVDS67_L9N	PL_AY8_LVDS67_L3N
H10	LA04_P	PL_E5_LVDS94_L2P	PL_BA6_LVDS67_L5P
H11	LA04_N	PL_E4_LVDS94_L2N	PL_BB6_LVDS67_L5N
H13	LA07_P	PL_C6_LVDS94_L7P_HDGC	PL_AU11_LVDS67_L8P
H14	LA07_N	PL_C5_LVDS94_L7N_HDGC	PL_AV11_LVDS67_L8N
H16	LA11_P	PL_AV9_LVDS67_L10P_QBC	PL_AT11_LVDS67_L12P_GC
H17	LA11_N	PL_AV8_LVDS67_L10N_QBC	PL_AT10_LVDS67_L12N_GC
H19	LA15_P	PL_AR15_LVDS67_L15P	PL_AN12_LVDS67_L16P_QBC
H20	LA15_N	PL_AR14_LVDS67_L15N	PL_AP12_LVDS67_L16N_QBC
H22	LA19_P	PL_AN12_LVDS67_L16P_QBC	PL_AJ14_LVDS67_L24P
H23	LA19_N	PL_AP12_LVDS67_L16N_QBC	PL_AK14_LVDS67_L24N
H25	LA21_P	PL_AM13_LVDS67_L23P	PL_AW9_LVDS67_L1P_DBC
H26	LA21_N	PL_AN13_LVDS67_L23N	PL_AY9_LVDS67_L1N_DBC
H28	LA24_P	PL_P16_LVDS68_L2P	PL_B8_LVDS93_L11P
H29	LA24_N	PL_N16_LVDS68_L2N	PL_A8_LVDS93_L11N
H31	LA28_P	PL_E7_LVDS93_L7P_HDGC	PL_B7_LVDS93_L10P
H32	LA28_N	PL_D7_LVDS93_L7N_HDGC	PL_A7_LVDS93_L10N
H34	LA30_P	PL_AP10_LVDS67_L14P_GC	PL_E7_LVDS93_L7P_HDGC
H35	LA30_N	PL_AR10_LVDS67_L14N_GC	PL_D7_LVDS93_L7N_HDGC
H37	LA32_P	NC	PL_E5_LVDS94_L2P
H38	LA32_N	NC	PL_E4_LVDS94_L2N

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Table 3 FMC Connector Pinout change

FMC Connector Pin Number	FMC Connector Pin Name	R2.0 Version Carrier Board	R3.0 Version Carrier Board
C18	LA14_P	PL_P15_LVDS68_L1P_DBC	NC
C19	LA14_N	PL_N15_LVDS68_L1N_DBC	NC
C26	LA27_P	PL_J16_LVDS68_L8P	NC
C27	LA27_N	PL_H16_LVDS68_L8N	NC
H19	LA15_P	PL_B13_LVDS68_L16P_QBC	NC
H20	LA15_N	PL_A12_LVDS68_L16N_QBC	NC

Table 4 I2C connection change

I2C Peripherals	R2.0 Version Carrier Board	R3.0 Version Carrier Board
Firefly Connector	I2C0: BUS SWITCH OUT0	I2C0: BUS SWITCH OUT1
SFP+ Connector	I2C0: BUS SWITCH OUT0	I2C0: BUS SWITCH OUT2
M.2 Connector	I2C0: BUS SWITCH OUT1	I2C0: BUS SWITCH OUT0
IO Expander 3	I2C0: BUS SWITCH OUT2	I2C0: BUS SWITCH OUT0

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Document Revision History

Revision	Date	Description
1.0	29 th Apr 2021	Official Release Version

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