



Product Change Notification / SYST-03VHPE138

Date:

11-Oct-2023

Product Category:

General Purpose FPGAs

PCN Type:

Document Change

Notification Subject:

Data Sheet - AN4153: Board and Layout Design Guidelines for SmartFusion 2 SoC and IGLOO 2 FPGAs

Affected CPNs:

[SYST-03VHPE138_Affected_CPN_10112023.pdf](#)

[SYST-03VHPE138_Affected_CPN_10112023.csv](#)

Notification Text:

SYST-03VHPE138

Microchip has released a new Datasheet for the AN4153: Board and Layout Design Guidelines for SmartFusion 2 SoC and IGLOO 2 FPGAs of devices. If you are using one of these devices please read the document located at [AN4153: Board and Layout Design Guidelines for SmartFusion 2 SoC and IGLOO 2 FPGAs](#).

Notification Status: Final

Description of Change: Added Table 1-18

Impacts to Data Sheet: None

Reason for Change: To Improve Productivity

Change Implementation Status: Complete

Date Document Changes Effective: 11 Oct 2023

NOTE: Please be advised that this is a change to the document only the product has not been changed.

Markings to Distinguish Revised from Unrevised Devices: N/A

Attachments:

AN4153: Board and Layout Design Guidelines for SmartFusion 2 SoC and IGLOO 2 FPGAs

Please contact your local **Microchip sales office** with questions or concerns regarding this notification.

Terms and Conditions:

If you wish to receive Microchip PCNs via email please register for our PCN email service at our **PCN home page** select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the **PCN FAQ** section.

If you wish to change your PCN profile, including opt out, please go to the **PCN home page** select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN)

M2GL005-1FG484
M2GL005-1FG484I
M2GL005-1FGG484
M2GL005-1FGG484I
M2GL005-1FGG484T1
M2GL005-1TQG144
M2GL005-1TQG144I
M2GL005-1VF256
M2GL005-1VF256I
M2GL005-1VF400
M2GL005-1VF400I
M2GL005-1VFG256
M2GL005-1VFG256I
M2GL005-1VFG400
M2GL005-1VFG400I
M2GL005-FG484
M2GL005-FG484I
M2GL005-FGG484
M2GL005-FGG484I
M2GL005-TQG144
M2GL005-TQG144I
M2GL005-VF256
M2GL005-VF256I
M2GL005-VF400
M2GL005-VF400I
M2GL005-VFG256
M2GL005-VFG256I
M2GL005-VFG400
M2GL005-VFG400I
M2GL005S-1FG484
M2GL005S-1FG484I
M2GL005S-1FGG484
M2GL005S-1FGG484I
M2GL005S-1FGG484T2
M2GL005S-1TQG144
M2GL005S-1TQG144I
M2GL005S-1TQG144T2
M2GL005S-1VF256
M2GL005S-1VF256I
M2GL005S-1VF400
M2GL005S-1VF400I
M2GL005S-1VFG256
M2GL005S-1VFG256I
M2GL005S-1VFG256T2
M2GL005S-1VFG400
M2GL005S-1VFG400I

M2GL005S-1VFG400T2
M2GL005S-FG484
M2GL005S-FG484I
M2GL005S-FGG484
M2GL005S-FGG484I
M2GL005S-TQG144
M2GL005S-TQG144I
M2GL005S-VF256
M2GL005S-VF256I
M2GL005S-VF400
M2GL005S-VF400I
M2GL005S-VFG256
M2GL005S-VFG256I
M2GL005S-VFG400
M2GL005S-VFG400I
M2GL010-1FG484
M2GL010-1FG484I
M2GL010-1FGG484
M2GL010-1FGG484I
M2GL010-1FGG484T1
M2GL010-1TQG144
M2GL010-1TQG144I
M2GL010-1VF256
M2GL010-1VF256I
M2GL010-1VF400
M2GL010-1VF400I
M2GL010-1VFG256
M2GL010-1VFG256I
M2GL010-1VFG400
M2GL010-1VFG400I
M2GL010-FG484
M2GL010-FG484I
M2GL010-FGG484
M2GL010-FGG484I
M2GL010-FGG484X417
M2GL010-TQG144
M2GL010-TQG144I
M2GL010S-1TQG144
M2GL010S-1TQG144I
M2GL010S-1TQG144T2
M2GL010S-TQG144
M2GL010S-TQG144I
M2GL010T-1FG484
M2GL010T-1FG484I
M2GL010T-1FG484M
M2GL010T-1FGG484
M2GL010T-1FGG484I
M2GL010T-1FGG484M
M2GL010T-1VF256

M2GL010T-1VF256I
M2GL010T-1VF400
M2GL010T-1VF400I
M2GL010T-1VFG256
M2GL010T-1VFG256I
M2GL010T-1VFG400
M2GL010T-1VFG400I
M2GL010T-FG484
M2GL010T-FG484I
M2GL010T-FGG484
M2GL010T-FGG484I
M2GL010T-VF256
M2GL010T-VF256I
M2GL010TS-1FG484
M2GL010TS-1FG484I
M2GL010TS-1FG484M
M2GL010TS-1FGG484
M2GL010TS-1FGG484I
M2GL010TS-1FGG484M
M2GL010TS-1FGG484T2
M2GL010TS-1VF256
M2GL010TS-1VF256I
M2GL010TS-1VF400
M2GL010TS-1VF400I
M2GL010TS-1VFG256
M2GL010TS-1VFG256I
M2GL010TS-1VFG256T2
M2GL010TS-1VFG400
M2GL010TS-1VFG400I
M2GL010TS-1VFG400T2
M2GL010TS-FG484
M2GL010TS-FG484I
M2GL010TS-FGG484
M2GL010TS-FGG484I
M2GL010TS-VF256
M2GL010TS-VF256I
M2GL010TS-VF400
M2GL010TS-VF400I
M2GL010TS-VFG256
M2GL010TS-VFG256I
M2GL010TS-VFG400
M2GL010TS-VFG400I
M2GL025-1FCS325
M2GL025-1FCS325I
M2GL025-1FC3G325
M2GL025-1FC3G325I
M2GL025-1FG484
M2GL025-1FG484I
M2GL025-1FGG484

M2GL025-1FGG484I
M2GL025-1FGG484T1
M2GL025-1VF256
M2GL025-1VF256I
M2GL025-1VF400
M2GL025-1VF400I
M2GL025-1VFG256
M2GL025-1VFG256I
M2GL025-1VFG400
M2GL025-1VFG400I
M2GL025-FCS325
M2GL025-FCS325I
M2GL025-FCSG325
M2GL025-FCSG325I
M2GL025-FG484
M2GL025-FG484I
M2GL025-FGG484
M2GL025-FGG484I
M2GL025T-1FCS325
M2GL025T-1FCS325I
M2GL025T-1FCSG325
M2GL025T-1FCSG325I
M2GL025T-1FG484
M2GL025T-1FG484I
M2GL025T-1FG484M
M2GL025T-1FG484MX3
M2GL025T-1FGG484
M2GL025T-1FGG484I
M2GL025T-1FGG484M
M2GL025T-1VF256
M2GL025T-1VF256I
M2GL025T-1VF400
M2GL025T-1VF400I
M2GL025T-1VFG256
M2GL025T-1VFG256I
M2GL025T-1VFG400
M2GL025T-1VFG400I
M2GL025T-FCS325
M2GL025T-FCS325I
M2GL025T-FCSG325
M2GL025T-FCSG325I
M2GL025T-FG484
M2GL025T-FG484I
M2GL025T-FGG484
M2GL025T-FGG484I
M2GL025TS-1FCS325
M2GL025TS-1FCS325I
M2GL025TS-1FCSG325
M2GL025TS-1FCSG325I

M2GL025TS-1FG484
M2GL025TS-1FG484I
M2GL025TS-1FG484M
M2GL025TS-1FGG484
M2GL025TS-1FGG484I
M2GL025TS-1FGG484M
M2GL025TS-1FGG484T2
M2GL025TS-1VF256
M2GL025TS-1VF256I
M2GL025TS-1VF400
M2GL025TS-1VF400I
M2GL025TS-1VFG256
M2GL025TS-1VFG256I
M2GL025TS-1VFG256T2
M2GL025TS-1VFG400
M2GL025TS-1VFG400I
M2GL025TS-1VFG400T2
M2GL025TS-FCS325
M2GL025TS-FCS325I
M2GL025TS-FCSG325
M2GL025TS-FCSG325I
M2GL025TS-FG484
M2GL025TS-FG484I
M2GL025TS-FGG484
M2GL050-1FCS325
M2GL050-1FCS325I
M2GL050-1FCSG325
M2GL050-1FCSG325I
M2GL050-1FG484
M2GL050-1FG484I
M2GL050-1FG896
M2GL050-1FG896I
M2GL050-1FGG484
M2GL050-1FGG484I
M2GL050-1FGG896
M2GL050-1FGG896I
M2GL050-1VF400
M2GL050-1VF400I
M2GL050-1VFG400
M2GL050-1VFG400I
M2GL050-FCS325
M2GL050-FCS325I
M2GL050-FCSG325
M2GL050-FCSG325I
M2GL050-FG484
M2GL050-FG484I
M2GL050-FG896
M2GL050-FG896I
M2GL050-FGG484

M2GL050-FGG484I
M2GL050-FGG896
M2GL050-FGG896I
M2GL050T-1FCS325
M2GL050T-1FCS325I
M2GL050T-1FC3G325
M2GL050T-1FC3G325I
M2GL050T-1FG484
M2GL050T-1FG484I
M2GL050T-1FG484M
M2GL050T-1FG896
M2GL050T-1FG896I
M2GL050T-1FGG484
M2GL050T-1FGG484I
M2GL050T-1FGG484M
M2GL050T-1FGG896
M2GL050T-1FGG896I
M2GL050T-1VF400
M2GL050T-1VF400I
M2GL050T-1VFG400
M2GL050T-1VFG400I
M2GL050T-FCS325
M2GL050T-FCS325I
M2GL050T-FCSG325
M2GL050T-FCSG325I
M2GL050T-FG484
M2GL050T-FG484I
M2GL050T-FG896
M2GL050T-FG896I
M2GL050T-FGG484
M2GL050T-FGG484I
M2GL050T-FGG896
M2GL050T-FGG896I
M2GL050TS-1FCS325
M2GL050TS-1FCS325I
M2GL050TS-1FC3G325
M2GL050TS-1FC3G325I
M2GL050TS-1FG484
M2GL050TS-1FG484I
M2GL050TS-1FG484M
M2GL050TS-1FG896
M2GL050TS-1FG896I
M2GL050TS-1FGG484
M2GL050TS-1FGG484I
M2GL050TS-1FGG484M
M2GL050TS-1FGG896
M2GL050TS-1FGG896I
M2GL050TS-1VF400
M2GL050TS-1VF400I

M2GL050TS-1VFG400
M2GL050TS-1VFG400I
M2GL050TS-FCS325
M2GL050TS-FCS325I
M2GL050TS-FCSG325
M2GL050TS-FCSG325I
M2GL050TS-FG484
M2GL050TS-FG484I
M2GL050TS-FG896
M2GL050TS-FG896I
M2GL060-1FCS325
M2GL060-1FCS325I
M2GL060-1FCSG325
M2GL060-1FCSG325I
M2GL060-1FG484
M2GL060-1FG484I
M2GL060-1FG676
M2GL060-1FG676I
M2GL060-1FGG484
M2GL060-1FGG484I
M2GL060-1FGG484T1
M2GL060-1FGG676
M2GL060-1FGG676I
M2GL060-1VF400
M2GL060-1VF400I
M2GL060-1VFG400
M2GL060-1VFG400I
M2GL060-FCS325
M2GL060-FCS325I
M2GL060-FCSG325
M2GL060-FCSG325I
M2GL060-FG484
M2GL060-FG484I
M2GL060-FG676
M2GL060-FG676I
M2GL060-FGG484
M2GL060-FGG484I
M2GL060-FGG676
M2GL060-FGG676I
M2GL060T-1FCS325
M2GL060T-1FCS325I
M2GL060T-1FCSG325
M2GL060T-1FCSG325I
M2GL060T-1FG484
M2GL060T-1FG484I
M2GL060T-1FG484M
M2GL060T-1FG676
M2GL060T-1FG676I
M2GL060T-1FGG484

M2GL060T-1FGG484I
M2GL060T-1FGG484M
M2GL060T-1FGG676
M2GL060T-1FGG676I
M2GL060T-1VF400
M2GL060T-1VF400I
M2GL060T-1VFG400
M2GL060T-1VFG400I
M2GL060T-1VFG784
M2GL060T-1VFG784I
M2GL060T-FCS325
M2GL060T-FCS325I
M2GL060T-FCSG325
M2GL060T-FCSG325I
M2GL060T-FG484
M2GL060T-FG484I
M2GL060T-FG676
M2GL060T-FG676I
M2GL060T-FGG484
M2GL060T-FGG484I
M2GL060T-FGG676
M2GL060T-FGG676I
M2GL060TS-1FCS325
M2GL060TS-1FCS325I
M2GL060TS-1FCSG325
M2GL060TS-1FCSG325I
M2GL060TS-1FG484
M2GL060TS-1FG484I
M2GL060TS-1FG484M
M2GL060TS-1FG676
M2GL060TS-1FG676I
M2GL060TS-1FGG484
M2GL060TS-1FGG484I
M2GL060TS-1FGG484M
M2GL060TS-1FGG484T2
M2GL060TS-1FGG676
M2GL060TS-1FGG676I
M2GL060TS-1FGG676T2
M2GL060TS-1VF400
M2GL060TS-1VF400I
M2GL060TS-1VFG400
M2GL060TS-1VFG400I
M2GL060TS-1VFG400T2
M2GL060TS-1VFG784
M2GL060TS-1VFG784I
M2GL060TS-FCS325
M2GL060TS-FCS325I
M2GL060TS-FCSG325
M2GL060TS-FCSG325I

M2GL060TS-FG484
M2GL060TS-FG484I
M2GL060TS-FG676
M2GL060TS-FG676I
M2GL060TS-FGG484
M2GL060TS-FGG484I
M2GL090-1FCS325
M2GL090-1FCS325I
M2GL090-1FCSG325
M2GL090-1FCSG325I
M2GL090-1FG484
M2GL090-1FG484I
M2GL090-1FG676
M2GL090-1FG676I
M2GL090-1FGG484
M2GL090-1FGG484I
M2GL090-1FGG484T1
M2GL090-1FGG676
M2GL090-1FGG676I
M2GL090-FCS325
M2GL090-FCS325I
M2GL090-FCSG325
M2GL090-FCSG325I
M2GL090-FG484
M2GL090-FG484I
M2GL090-FG484IX3
M2GL090-FG676
M2GL090-FG676I
M2GL090-FGG484
M2GL090-FGG484I
M2GL090-FGG676
M2GL090-FGG676I
M2GL090T-1FCS325
M2GL090T-1FCS325I
M2GL090T-1FCSG325
M2GL090T-1FCSG325I
M2GL090T-1FG484
M2GL090T-1FG484I
M2GL090T-1FG484M
M2GL090T-1FG676
M2GL090T-1FG676I
M2GL090T-1FGG484
M2GL090T-1FGG484I
M2GL090T-1FGG484M
M2GL090T-1FGG676
M2GL090T-1FGG676I
M2GL090T-FCS325
M2GL090T-FCS325I
M2GL090T-FCSG325

M2GL090T-FCSG325I
M2GL090T-FG484
M2GL090T-FG484I
M2GL090T-FG676
M2GL090T-FG676I
M2GL090T-FGG484
M2GL090T-FGG484I
M2GL090T-FGG676
M2GL090T-FGG676I
M2GL090TS-1FCS325
M2GL090TS-1FCS325I
M2GL090TS-1FCSG325
M2GL090TS-1FCSG325I
M2GL090TS-1FG484
M2GL090TS-1FG484I
M2GL090TS-1FG484M
M2GL090TS-1FG676
M2GL090TS-1FG676I
M2GL090TS-1FGG484
M2GL090TS-1FGG484I
M2GL090TS-1FGG484M
M2GL090TS-1FGG484T2
M2GL090TS-1FGG676
M2GL090TS-1FGG676I
M2GL090TS-1FGG676T2
M2GL090TS-FCS325
M2GL090TS-FCS325I
M2GL090TS-FCSG325
M2GL090TS-FCSG325I
M2GL150-1FC1152
M2GL150-1FC1152I
M2GL150-1FCG1152
M2GL150-1FCG1152I
M2GL150-1FCS536
M2GL150-1FCS536I
M2GL150-1FCSG536
M2GL150-1FCSG536I
M2GL150-1FCV484
M2GL150-1FCV484I
M2GL150-1FCVG484
M2GL150-1FCVG484I
M2GL150-FC1152
M2GL150-FC1152I
M2GL150-FCG1152
M2GL150-FCG1152I
M2GL150-FCS536
M2GL150-FCS536I
M2GL150-FCS536IX3
M2GL150-FCSG536

M2GL150-FCSG536I
M2GL150-FCV484
M2GL150-FCV484I
M2GL150-FCVG484
M2GL150-FCVG484I
M2GL150T-1FC1152
M2GL150T-1FC1152I
M2GL150T-1FC1152M
M2GL150T-1FCG1152
M2GL150T-1FCG1152I
M2GL150T-1FCG1152M
M2GL150T-1FCS536
M2GL150T-1FCS536I
M2GL150T-1FCSG536
M2GL150T-1FCSG536I
M2GL150T-1FCV484
M2GL150T-1FCV484I
M2GL150T-1FCV484M
M2GL150T-1FCVG484
M2GL150T-1FCVG484I
M2GL150T-FC1152
M2GL150T-FC1152I
M2GL150T-FCG1152
M2GL150T-FCG1152I
M2GL150T-FCS536
M2GL150T-FCS536I
M2GL150T-FCSG536
M2GL150T-FCSG536I
M2GL150T-FCV484
M2GL150T-FCV484I
M2GL150T-FCVG484
M2GL150T-FCVG484I
M2GL150TS-1FC1152
M2GL150TS-1FC1152I
M2GL150TS-1FC1152M
M2GL150TS-1FCG1152
M2GL150TS-1FCG1152I
M2GL150TS-1FCG1152M
M2GL150TS-1FCS536
M2GL150TS-1FCS536I
M2GL150TS-1FCSG536
M2GL150TS-1FCSG536I
M2GL150TS-1FCV484
M2GL150TS-1FCV484I
M2GL150TS-1FCV484M
M2GL150TS-1FCVG484
M2GL150TS-1FCVG484I
M2GL150TS-FC1152
M2GL150TS-FC1152I

M2GL150TS-FCG1152
M2GL150TS-FCG1152I
M2GL150TS-FCS536
M2GL150TS-FCS536I
M2GL150TS-FCSG536
M2GL150TS-FCSG536I
M2GL150TS-FCV484
M2GL150TS-FCV484I
M2GL150TS-FCVG484
M2GL150TS-FCVG484I