

Xilinx & Altera FPGA ボードセレクションガイド

※インターフェースの個数は、アドオンモジュールや拡張スロットによってサポートされる数も含んでおります。詳細は下記メーカーWebサイトをご覧ください。
<http://www.hitechglobal.com/Boards/FPGA-Boards-Selection-Guide.htm>

下記サイトから、お気軽にお問い合わせください。
<https://www.fsi-embedded.jp/product/hitech-global/>

| Product Name | FPGA Technology | FPGA Part Numbers | Communication Ports | | | | | | | | | | | | | | | | | | | Expansion Connectors | | | | Memory | | | | | Dimension | | | | | | | | | | |
|--------------|------------------|--|-----------------------|--------------------|--------------------|--------------------|----------------|--------------|---------------|--------------|----------------|---------|----------|---------------------------|---------------|--------------------|--------------|------------------|-------|------------------|--------------------|---|---|--------------------|-------------|----------|-----------|-------|-----|-----|-----------|------|-------|--------|-------------|------|-------|--|-----|--------------|-------------|
| | | | PCI Express End Point | PCIe Root x8 & X16 | SFP+ (1x10G) | QSFP+ (1x40G) | QSFP23 (4x25G) | QFP4 (4x25G) | QFP8 (16x25G) | QXP (12x10G) | SATA (1Tx/1Pc) | USB 3.0 | USB/UART | FireFly (12Tx/Rx) (4x25G) | LEAP (12x25G) | Mini Pod (12Tx/Rx) | SMA (1Tx/Rx) | MiniSMP (1Tx/Rx) | RS485 | ADC 16 bit 1GSps | DAQ 16-bit 2.5GSps | ADO 14-bit 3 GSps DAQ 16-bit 12.8 GSps | ADO 12-bit 10.25 GSps DAQ 16-bit 12.8 GSps | x4ADO 14-bit 3GSps | RJ45 (4x1G) | FMC 57.1 | FMC+ 57.4 | Z-RAY | QSE | HMC | | DDR4 | DDR3 | QDR II | QDR IV | RLD3 | FLASH | | | | |
| HTG-A100 | Altera Arria 10 | 10AX067H02F40E2B0 10AX068H02F40E2B0 10AX069H02F40E2B0 10AX118H02F40E2B0 | x8 GEN3 | x8 | x2, x3, x4, x10 | x1, x2, x2 (ZF) | x1 | x1 | | | x4 | x3 | x1 | x1 | | | x8 | x16 | x42 | x4 | x2 | x2 ADC | x2 DAC | | | | x4 | x2 | | x1 | x1 | x1 | 2.5GB | | | | | | 1Gb | 6.6" x 4.25" | |
| HTG-S500 | Altera Stratix V | 8SQXMA7K2F40Q2N 8SQXMA7K2F40Q2N 8SQXMA8K3H40Q2N 8SQXMA8K3H40Q2N | x8 GEN3 | | | x2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5GB | x2 144Mb | | | | | 512Mb | 6.6x" 2.25" |
| HTG-S510 | Altera Stratix V | 8SQXMA7K2F40Q2N 8SQXMA7K2F40Q2N 8SQXMA8K3H40Q2N 8SQXMA8K3H40Q2N | x8 GEN3 | x8 | x2, x2, x4, x10 | x2 x2 | | | | | x4 | | x1 | | | | x8 | x16 | | x4 | x2 | x2 ADC | x2 DAC | | | | | | | | | | | 16GB | x3 144Mb | | | | | 512Mb | 9" x 4.25" |

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 本内容の無断複製、転載、配布行為を禁止します。

FMC (Vita57.1) / FMC+ (Vita57.4) Modules セレクションガイド

 FMCモジュールのセレクションガイドは、下記メーカーWebサイトからご購入頂けます。
<http://www.hitechglobal.com/FMCModules/FMC-Cards-SelectionGuide.htm>

 下記サイトから、お気軽にお問い合わせください。
<https://www.fsi-embedded.jp/product/hitech-global/>
FMCモジュール:

| Ordering Part # | ADC | | | DAC | | | 400G | 300G | 200G | 100G | 56G/40G | 10G | 1G | | | | | | | | | | | | | | | |
|--------------------------------------|-----------------|---------------|---------------|--------|--------|------------------|------|------|---------|--------|---------|-------|------|------|-----|--------------|------|------|----------------|------|-----|------|----------|-----------------|------|-----|-----|--|
| | 12-bit | 14-bit | 16-bit | 12-bit | 14-bit | 16-bit | CFP8 | LEAP | QSFP-DD | QSFP28 | CXP | QSFP+ | SFP+ | RJ45 | SMA | MSMP GPPG | USB3 | USB2 | RS485 RS422 | PCIE | HMC | SATA | SFF-8639 | DISPLAY PORT | GPIO | M.2 | CX4 | |
| HTG-FMC-14ADC-16DAC | | 3GSPS (x2) | | | | 12.6GSPS (x2) | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-QUAD-14ADC | | 3GSPS (x4) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-AD854.4 | | | 1GSPS (x4) | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-DAC39-IQ2 | | | | | | 2.8GSPS (x2) | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-DAC39-IQ4 | | | | | | 2.8GSPS (x4) | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-12ADC-16DAC | 2.7GSPS (x1) | | | | | 2.8GSPS (x2) | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-X2QSFP-DD | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-X6QSFP28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-X4QSFP28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-X2QSFP28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-X2CXP | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-600G | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-CFP8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-X2QSFP+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-SFP-OC | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-X10SFP+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-X4SFP+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-SFP-PLUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-X4SFP-X4SATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-SMA-LVDS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-SMA-X4SMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-X8SMA | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-X24MSMP | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-RS485 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-PCIE-RC | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-USB3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-4R45-SGMII | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-HMC-4G | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-SFF-8639 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-M2X2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HTG-FMC-X4CX4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

FMCケーブル:

| Main Application | Connector's Type | Connector's Part# (Cable's Side) | Mating Connector | Connectors' Installation | Length | Cable's Part Number |
|-----------------------------------|----------------------|-------------------------------------|------------------|--------------------------|--------|---------------------------------------|
| Board To Board Connection | High Pin Count (HPC) | ASP-134488-01 | ASP-134486-01 | Same Side | 9" | FMC-TO-FMC-9-88-88 |
| | | ASP-134488-01 | | | | |
| Board To Board Connection | High Pin Count (HPC) | ASP-134488-01 | ASP-134486-01 | Same Side | 5" | FMC-TO-FMC-5-88-88 |
| | | ASP-134488-01 | | | | |
| Board To Board Connection | Low Pin Count (LPC) | ASP-134604-01 | ASP-134603-01 | Same Side | 9" | FMC-TO-FMC-9-04-04 |
| | | ASP-134604-01 | | | | |
| Board To Daughter Card Connection | High Pin Count (HPC) | ASP-134488-01 | ASP-134486-01 | Same Side | 9" | FMC-TO-FMC-9-88-86 |
| | | ASP-134486-01 | | | | |
| Board To Daughter Card Connection | High Pin Count (HPC) | ASP-134488-01 | ASP-134486-01 | Opposite Sides | 9" | FMC-TO-FMC-9-88-86-DS |
| | | ASP-134486-01 | | | | |

FMC+ケーブル:

| Main Application | Connector's Type | Connector's Part# (Cable's Side) | Mating Connector | Connectors' Installation | Length | Cable's Part Number |
|---|----------------------|-------------------------------------|------------------|--------------------------|--------|-------------------------------------|
| Board To Board Connection (using up to 24 serial transceivers) | High Pin Count (HPC) | ASP-184330-01 | ASP-184329-01 | Same Side | 9" | FMC-TO-FMCP-9-30-30 |
| | | ASP-184330-01 | | | | |

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