The FMC Carrier Card supports the MicroZed™ Evaluation Kit and System-on-Module (SOM), providing easy access to the full 108 user I/O available from the MicroZed SOM. Two 100-pin MicroHeaders on the carrier card mate with the MicroZed, connecting 75 of the MicroZed Programmable Logic (PL) I/O to a low-pin-count Vita 57 FPGA Mezzanine Connector (FMC) interface. The remaining MicroZed I/O are connected to various FMC Carrier Card features, including push button switches, LEDs, EEPROMs, and five Digilent Pmod™ compatible interfaces. The FMC Carrier Card also generates the necessary power rails for MicroZed, providing 5 V to the MicroZed core and a user selectable bank voltage for the PL I/O and FMC Vadj. The FMC Carrier Card accelerates complex prototyping by interconnecting a MicroZed SOM and industry-standard FMC Modules.

FEATURES

Interfaces
- Two 100-pin board-to-board MicroHeaders
- Xilinx PC4 header for PL JTAG download/debug
- Five Digilent Pmod™ compatible interfaces
  - Access to 8 MIO and 31 PL I/O (15 are 7Z020 only)
  - Two support the Zed Touch Display Kit
- Low pin count (LPC) FMC with
  - 72 PL I/Os (36 differential pairs)
  - 2 User push buttons and 4 User LEDs
  - 2 Status LEDs (Power Good and DONE)

On-Board Memory
- 2 Kb MAC ID EEPROM
- (optional) 1 Kb SHA-1 EEPROM (not populated by default)

Power
- Internal
  - Proper sequencing and handshaking as per
    MicroZed Carrier Card Design Guide
  - 5 V @ 2 A regulator for MicroZed power
  - 1.8/2.5/3.3 V @ 4 A Regulator for MicroZed VCCIO and FMC Vadj
  - 3.3 V @ 3 A Regulator for FMC and Pmods
- Input
  - 12 V @ 5 A input via 2 x 3 connector
  - (optional) Fan header
    - Resistor-selectable 5 V or 12 V to power an on-board fan

To purchase the carrier card, visit www.microzed.org
## PARTS

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<tr>
<th>Part Number</th>
<th>Description</th>
<th>Resale</th>
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<tr>
<td>AES-MBCC-FMC-G</td>
<td>MicroZed™ FMC Carrier Card</td>
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## RELATED PARTS

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<th>Description</th>
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<td>AES-ALI2-ZED-G</td>
<td>7-inch Zed Touch Display Kit</td>
<td>$499 USD</td>
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<td>AES-Z7MB-7Z010-G</td>
<td>MicroZed Evaluation Kit</td>
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<td>AES-Z7MB-7Z020-SOM-G</td>
<td>MicroZed 7020 SOM - Standard Version</td>
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<td>AES-FMC-IMAGEON-G</td>
<td>HDMI Input/Output</td>
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Visit www.microzed.org to learn more about our standard and extended temperature MicroZed SOM options.

**Countries Available for Purchase:** Americas, EMEA, Asia, Japan