

▶ EMC²-DP

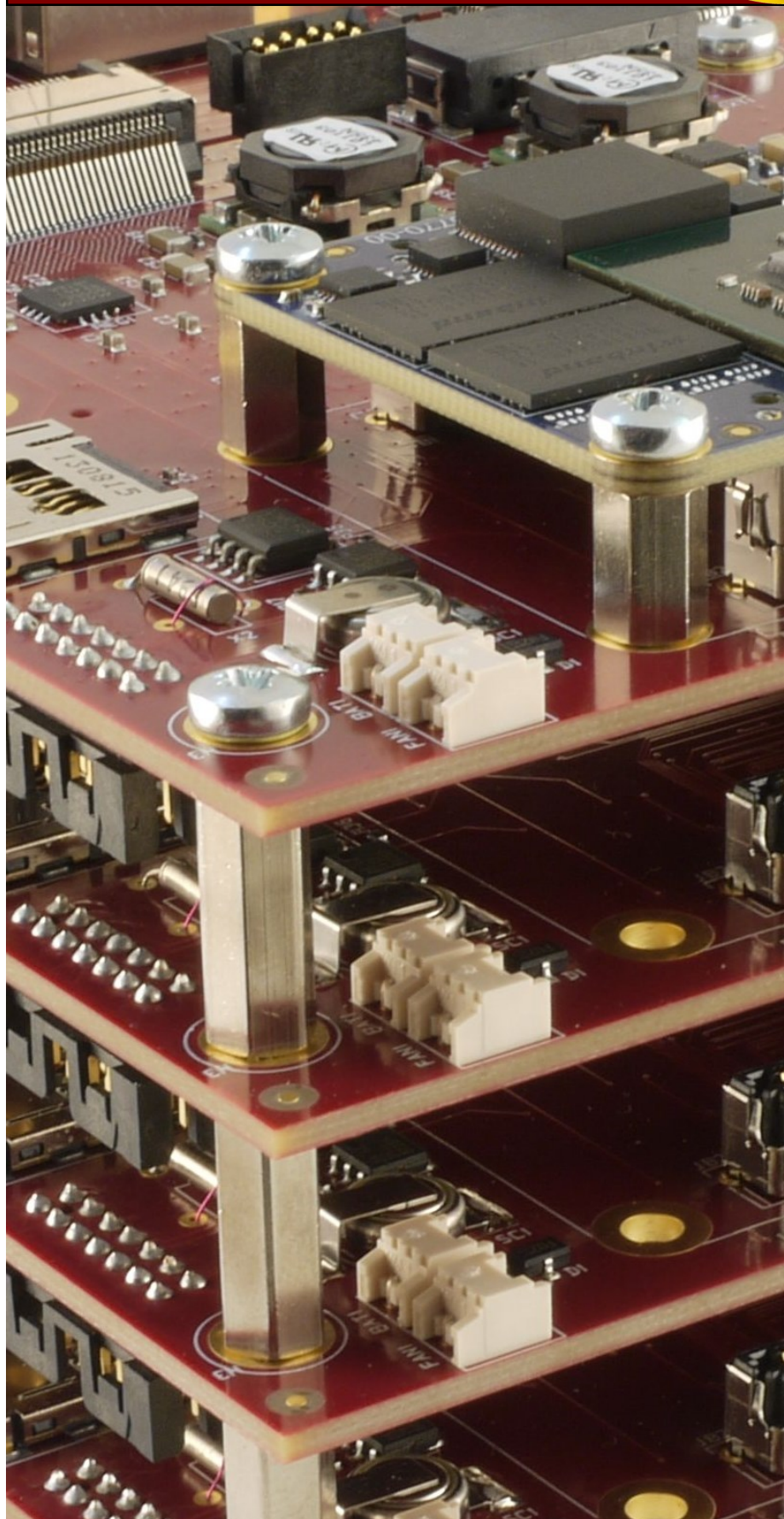
The EMC²-DP is a PCIe/I04 OneBank™ carrier for a 'System-on-Module' processing unit and a VITA57.1 FMC™ LPC I/O board.

The main processing power of the EMC²-DP is a Xilinx Zynq FPGA which incorporates two ARM A9 processors as well as the traditional FPGA fabrics/gates + High-Speed I/O interfaces..

Other 'System-on-Modules' can be used to add more embedded features and applications such as smaller/larger FPGAs, more ARM or Intel CPU cores, 1Gb Ethernet & PCI Express.

The PCIe/I04 OneBank™ design enables the EMC²-DP to be added to robust and rugged installations for various commercial, medial, industrial and military uses.

To enable more versatility the EMC²-DP also incorporates a VITA57.1 FMC™ LPC connector opening up an range of extra possibilities and expansion options.



▶ ARM + FPGA + FMC I/O



Industry Standard PC/I04 format

Easy Development, Stackable

Rugged concept; 96mm x 90mm

VITA57.1 FMC I/O expandability

▶ BENEFITS



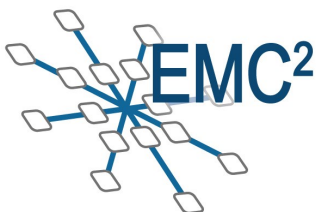
Single Board Computer (SBC)

Dual ARM A9 1GHz CPU

Artix-7 or Kintex-7 FPGA option

1000's of I/O combinations

▶ FEATURES

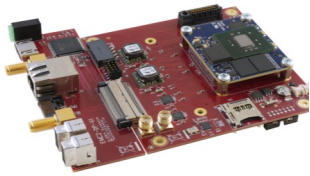


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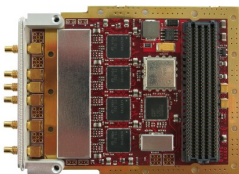
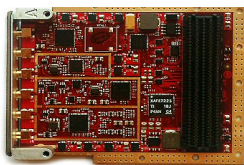
EMC ² -DP Carrier & SBC Power Supply			
PRODUCT	DESCRIPTION	FORM FACTOR	AVAILABILITY
EMC²-DP	FPGA & FMC Carrier	PCIe/IO4 OneBank	May'15
SMT1024	Power-over-Ethernet	PCIe/IO4 PCI/IO4	NOW

▶ SOM



System on Modules				
PRODUCT	FPGA FAMILY	FPGA TYPE	PROCESSOR	EXTRAS
TE0710	ARTIX	35T, 50T, 75T, 100T	MicroBlaze	2x 100Mb Ethernet
TE0711	ARTIX	35T, 50T, 75T, 100T	MicroBlaze	USB 2, UART/FIFO
TE0712	ARTIX	35T, 50T, 75T, 100T, 200T	MicroBlaze	100Mb Ethernet, PCI Express, 4x transceivers
TE0715	ZYNQ	Z7015 (Artix-7) Z7030 (Kintex7)	2x Cortex A9	Gbit Ethernet USB 2, PCI Express, 4x transceivers
TE0720	ZYNQ	Z-7020	2x Cortex A9	Gbit Ethernet USB 2 OTG
TE0741	KINTEX	70T, 160T, 325T, 410T	MicroBlaze	Programmable Clocks , PCI-Express, 8x transceivers

▶ FMC MODULES



FMC Modules				
PRODUCT	TYPE	CHANNELS	SAMPLING RATE	RESOLUTION
FMC30RF	RF	1xRX 1xTX	Bandwidth 30MHz	
FMC103	A/D	4	210 MSPS	12
FMC104	A/D	4	250 MSPS	14
FMC107	A/D	8	65 MSPS	12
FMC112	A/D	12	125 MSPS	14
FMC122	A/D	1, 2	1250 MSPS 2500 MSPS	8
FMC164	A/D	4	250 MSPS	16
FMC168	A/D	8	250 MSPS	16
FMC150	A/D+D/A - AC	2	250 MSPS	14
FMC151	A/D+D/A - DC	2	800 MSPS	16
FMC406	Clock	8x Clock OP 8x Trigger OP	34.375MHz to 350MHz	
FMC407	Clock	8x Clock OP 8x Trigger OP	34.375 MHZ and 4.4GHz	