

## I/I (Innovative Integration) 社 XU-TX 신제품소개

1. XU-TX 카드의 특징
2. XU-TX 카드의 주요적용 분야
3. XU-TX 카드의 구성
4. XU-TX 카드의 소프트웨어 개발 환경




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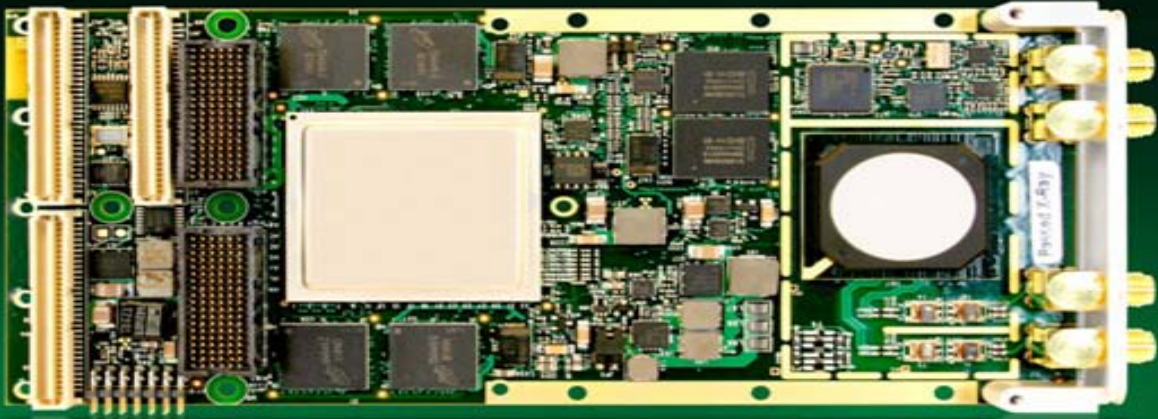
 **Innovative Integration**  
a subsidiary of ISI  
... real time solutions!

XU-TX • Two 5.1 GSPS 16-bit DACs, Xilinx Ultrascale FPGA

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FMCs XMCs FPGAs Data Acquisition Data Loggers Embedded PCs Clock Timebases Adapters

**Eliminate the middle-man... Go direct to RF!**



**XU TX**

XMC Module with Dual 5.1 GSPS DACs  
*Perfect for Direct-to-RF applications*



- Two 16-bit, > 5.1 GSPS DAC 채널
- Single ended AC coupled outputs with programmable DC bias
- Differential DC model option
- >2 GHz analog bandwidth (1X)
- Digital inverse sinc filter
- Enhanced 2nd and 3rd Nyquist modes
- "Frequency doubling" 2X mode
- Interpolation filters: 1X(bypassed)-64x
- 48 bit NCO and 31 32bit fast hop NCOs
- 65 bit 디지털 I/O
- Up to 7800 MB/s streaming via PCIe or Aurora
- Internal or external clocking



- 각각의 DAC 마다 internal 0.3 ~ 4.8 GHz PLL
- Internal or external triggering
- 고정 대기시간 (Fixed latency), multi-board 동기화(synchronization)
- Xilinx Kintex Ultrascale FPGA XCKU060/085
- 4 GB DDR4 DRAM in 2 banks each with 64 bit interface
- 최대 38.4GB/s total bandwidth (100% data bus 효율인 경우)
- FFT와 같은 random access application인 경우 DDR 보다 12배 빠름