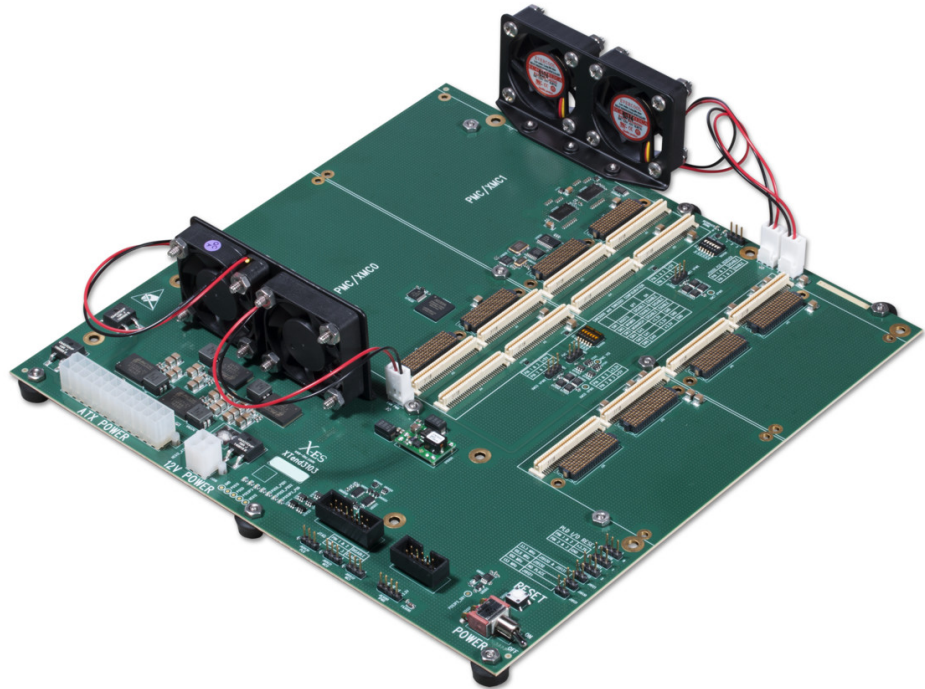# XTend3103

Dual XMC/PMC Carrier for Development and Testing

- ❯ Dual XMC sites capable of up to PCIe Express Gen3

- ❯ Dual PCI/PCI-X PMC sites up to 133 MHz

- ❯ XMC sites support VITA 42 or VITA 61 connectors

- ❯ Each mezzanine site can be configured for Monarch or Root Complex functionality

- ❯ Dual XIM/PIM sites for XMC/PMC rear I/O

- ❯ Configurable voltage for XMC VPWR (+5 V or +12 V) and PMC VIO (+3.3 V or +5 V)

- ❯ ATX power supply connector

- ❯ Onboard +5 V, +3.3 V, and -12 V power supplies

- ❯ JTAG support

XTend3103

The XTend3103 is a dual XMC/PMC carrier card that offers a compact, low-cost development platform for XMC/PMC modules. In conjunction with a standard off-the-shelf ATX power supply, the XTend3103 provides a complete desktop or benchtop PCI/PCI-X XMC and PMC platform for development, evaluation, and testing, without the need for an expensive and bulky CompactPCI/VME PMC carrier card and chassis.

The XTend3103 features four integrated 40 mm fans arranged in a push-pull configuration to provide ample airflow for even the most power-hungry modules (up to 50 W each). The XTend3103 also provides onboard +5 V, +3.3 V, and -12 V power supplies, sourcing only +12 V from the ATX power supply. This arrangement avoids the voltage drop and ampacity problems commonly associated with powering high-performance mezzanine modules using ATX supplies.

Another common problem with XMC/PMC development is lack of early access to rear I/O ports. This is especially troublesome with conduction-cooled modules, which by design do not have Ethernet or serial access via front panel connectors. The XTend3103 solves this problem by providing a XIM/PIM (XMC/PMC I/O module) site for each XMC/PMC. These sites, when used in conjunction with the appropriate XIM/PIM, can provide the necessary I/O during the early development stage, when custom backplanes and wiring harnesses are often not available.

X-ES

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...Always Fast

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PCI-X

- Dual 32/64-bit PCI/PCI-X sites up to 133 MHz
- Conventional PCI 33/66 MHz or PCI-X 66/100/133 MHz
- Auto PCI speed and mode detection

Mezzanine I/O

- Two XIM/PIM sites for XMC/PMC rear I/O

XMC

- XMC sites support per VITA 42 or VITA 61 connectors
- XMC 0 and XMC 1 can be configured as isolated or connected sites
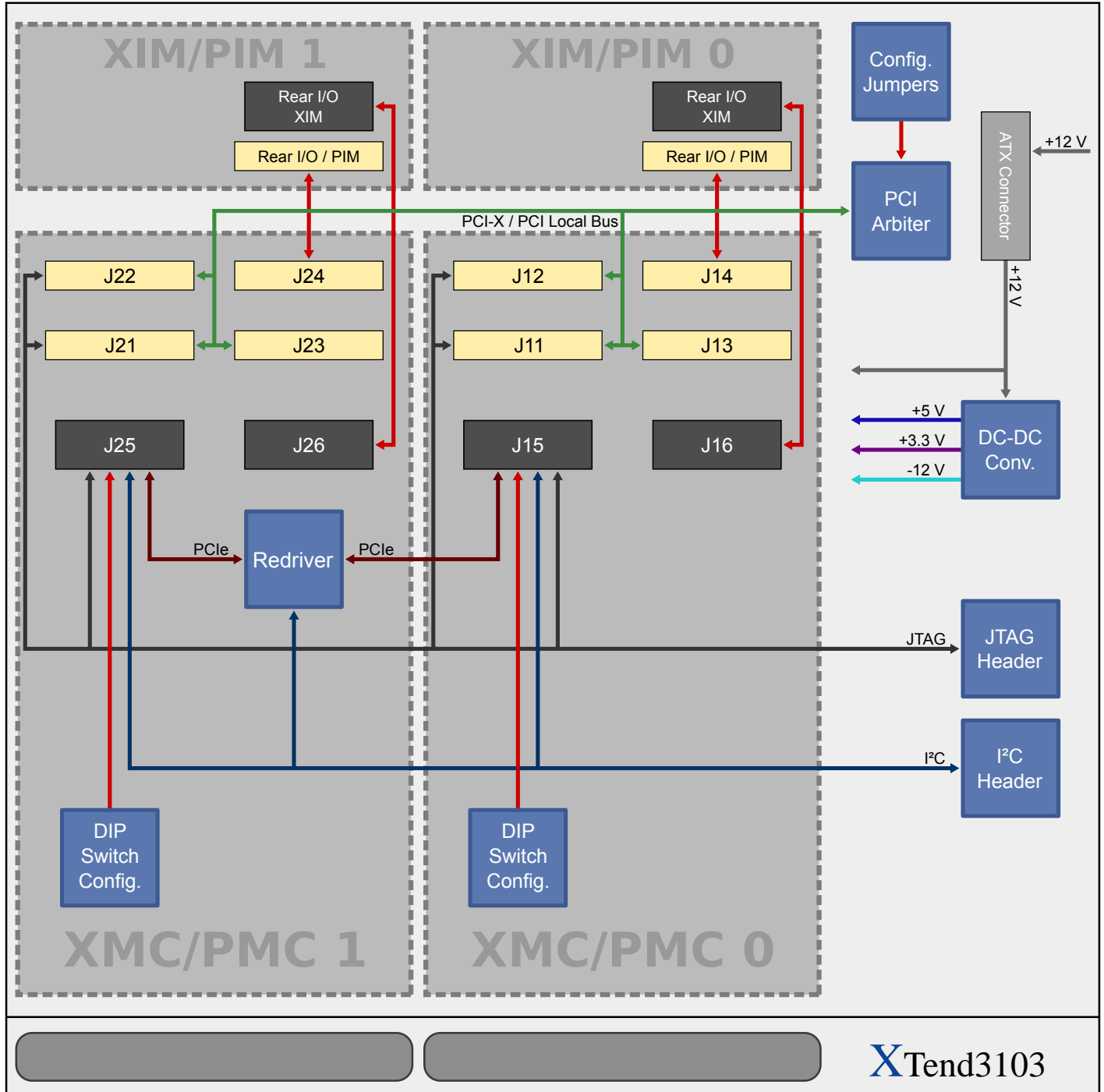- 100 MHz reference clock provided to each XMC site

Cooling

- Four integrated 40 mm fans
- Push-pull airflow

Power Supplies

- Onboard +5 V, +3.3 V, and -12 V supplies
- Supplies up to 100 W combined to XMC/PMC sites
- Only +12 V is sourced from ATX supply

Power Requirements (from ATX supply)

- Power will vary based on configuration and usage. Please consult factory.