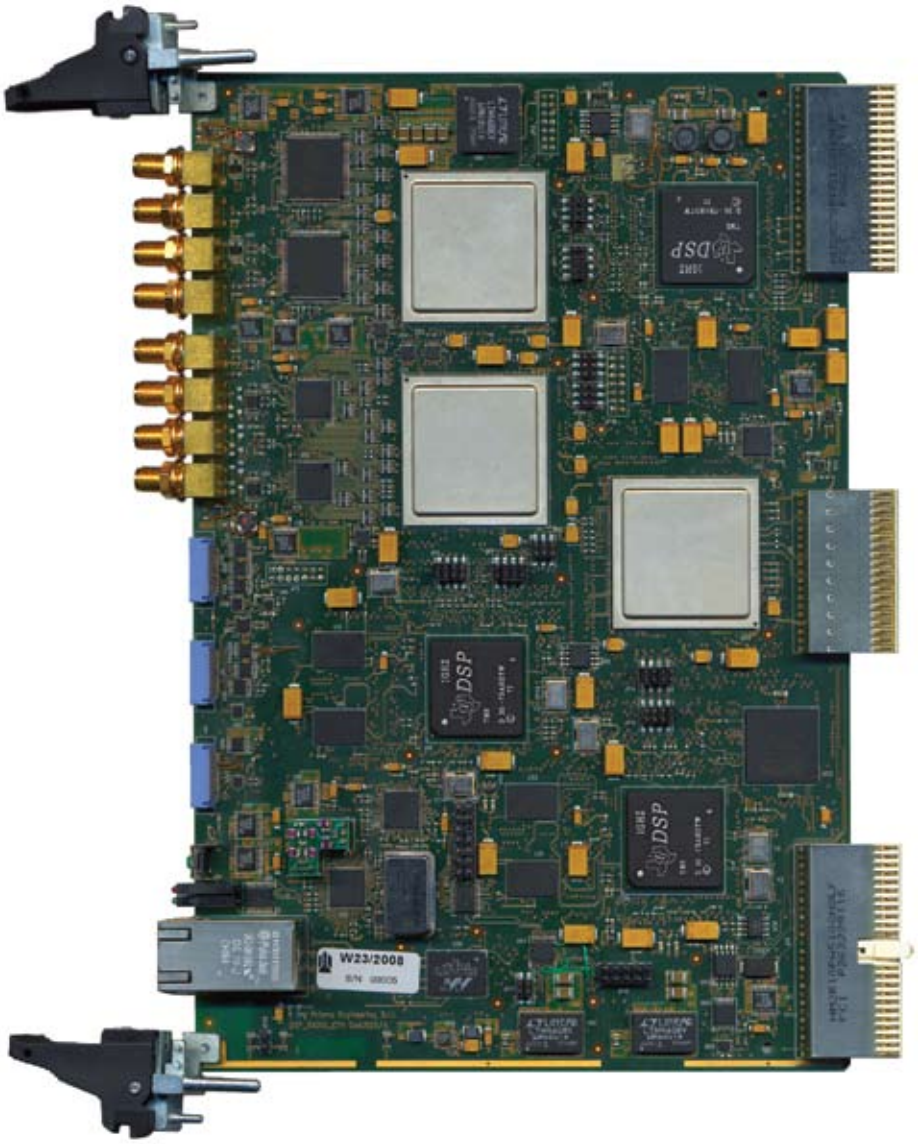
LSU SDR Family

the Software Defined Radio architecture to test multi standard radio interfaces



PSDR Baseband SDR Processing Card

Prisma's background

Prisma Engineering pioneers multi-user, scalable load&stress test and monitoring solutions for cellular networks for GSM/GPRS/EDGE, UMTS, WiMAX, LTE standards and more.

This new testing solution, the LSU SDR Family, based on Software Defined Radio, expand the scope of PRISMA solutions to the entire range of interfaces used in mobile networks especially for Evolved EDGE and LTE radio systems.

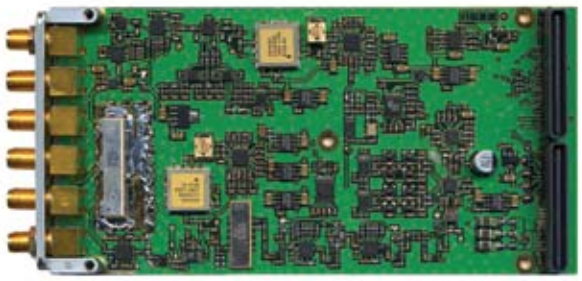
Specifically designed to protect your investments in testing

Prisma's LSU SDR Family has been designed with a common hardware architecture for different wireless standards while various software modules group different sets of network features. This approach will guarantee an unrivaled protection of your investment for testing equipments, in facts these Prisma's solutions will always follow your needs as they evolve and grow. LSU SDR Family hardware and software releases will also anticipate the official versions of the evolving standards and will be immediately available for Customers.

Integration with the LSUv3 family

Prisma's Line Server Unit v3 (LSUv3) is a family of ultra-high performance test equipment designed by Prisma Engineering to support –in all telecom areas- development, system acceptance and production test activities in an effective and flexible way. PCM, STM-1/OC-3 (ATM and SDH) and Gigabit Ethernet interfaces are available to integrate all LSU based solutions to any GSM, GPRS, EDGE, UMTS and LTE network element.

prisma engineering



ISGM PMC Radio Module

ILTE PMC Radio Modul

Flexible hardware configurations perform full load from 1 up to 16 carriers in a single device

LSU SDR Family configuration is modular and easily scalable. The base module consists of one PMPC processing card, two PSDR base band cards and two PMC radio interfaces (up to 4 carriers). The LSU SDR Expansion module consists of two PSDR cards and two Radio PMC cards (up to 4 carriers). High capacity systems can be composed by one base module and up to three expansion modules achieving up to 16 carriers systems. Despite of their high capacity these systems are managed via a unique centralized management GUI.

PMPC - Control and Radio Protocol Processing Unit Card

This card manage the dialog towards external system and control radio system configuration. The advanced features offered by this cards includes support for detailed monitoring over radio and base-band layers, protocol violation conditions simulation, error injection at different levels.

PSDR - Software Defined Radio processing card

This card manages all baseband radio features and supports different radio standards. This means that the Customers can to use PSDR cards over different standards by loading the proper software on it. An optional OBSAI/CPRI Rear Interface Module (ISDR) is also available.

IGSM/ILTE - Radio Interface PMC cards

The Radio Interface PMC card manages Intermediate and High Frequency radio aspects. Different versions support various standards over different frequency bands. The version available are for GSM/Evolved EDGE and LTE. New versions for WiMAX and TD-SCDMA are on the way.

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