

NetLeap™

An Industry 4.0 Multi-Protocol Ethernet Ports Aggregator Platform



"NovTech came highly recommended to us by Arrow Electronics for i.MX6-based solution. NovTech took our unique I/O interface requirements for a retail fuel dispenser, coupled this with their i.MX6 expertise, and in mere months we had a fully functional solution in hand. The boards arrived, 24VDC was applied, and we were up and running. Internally, a project of this size would have required at least a year for just a first prototype. NovTech did the equivalent effort delivering a production grade solution in less than five months."

Edward Payne
Principal Engineer, Gilbarco

Target Markets for NetLeap™ include:

- Industrial & Manufacturing
- Aerospace & Defense
- Agriculture
- Automotive
- Energy
- Transportation
- Utilities

Applications

- Industrial Ethernet Protocol Switch
- Industrial Ethernet Router
- Industrial Ethernet Protocol Bridge

Kit Includes:

- NOV SOM®CVL
- NetLeap™ base board
- SD card with Linux image and example code
- UART TTL to USB cable
- USB drive with manuals, documentation, quick start guide and Virtual Machine
- Power supply

Order Information

Arrow Part Number: **NOVPEK_NLEAK at \$439.00**

For pre-production orders please contact NovTech at sales@novtech.com

SUPPORT

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The platform is based on the NOV SOM®CVL, a Cyclone V SoC based SoM. The kit is delivered with the largest FPGA in this family, the 110K LE.

NovTech's NetLeap™, an Industry 4.0 Multi-Protocol Ethernet Ports Aggregator Platform, allows the development and integration of many Ethernet protocols including PROFINET®, EtherCAT®, EtherNet/IP, Ethernet Powerlink, Modbus TCP, SERCOS III and more. Six 1G/100/10 Ethernet ports are present. Two are connected to the HPS (The ARM® Cortex-A9 core of the Cyclone V SoC) and four are connected to the FPGA fabric. With its six ports, the NetLeap™ allows different protocols to reside on the same platform and can be a protocol bridge, a switch, or a router. The kit comes with a templated project example that allows the board to boot to Linux and demonstrate Ethernet connectivity. This solution is pre-production ready.

FEATURES

- NOV SOM®CVL, a cyclone V SoC with 110K LE
- Six 1G/100/10 Ethernet ports (can be configured to any protocol)
- MAC address for each port
- UART port (for OS monitor)
- I2C port
- Temperature sensor
- RTC (Real Time Clock) with battery backup
- Embedded Security
- 15 HPS signals that can be configured as: HPS GPIO, FPGA I/O signals, CAN BUS, Additional I2C port, Additional UART, SPI
- Four FPGA signals that can be configured as: FPGA I/O signals, HPS signals, One global clock input

EMBEDDED SECURITY

NetLeap™ uses Infineon's OPTIGA™ Trust P (SLJ 52ACA150A1) to achieve the following security features:

- Protected storage of credentials and device configuration information
- Secure boot of the system
- Device authentication to the network
- Secure update of the device firmware and configuration
- Secure communication channel for data exchange over the network

PRE-PRODUCTION READY

The NetLeap™ can be taken into production once these steps are completed:

- Customize Linux to your needs
- Customize an enclosure for the solution
- Pass regulatory requirements

NovTech provides services that assist in achieving these tasks



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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