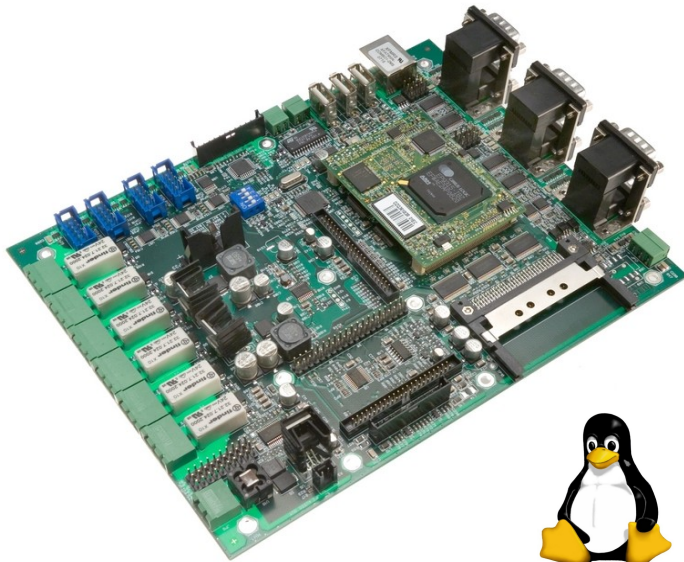


“Beryl”[®]

Turnkey Embedded System Powered by Cirrus Logic EP9315 CPU



- ✓ Turnkey solution powered by ARM920T Cirrus Logic EP9315 CPU
- ✓ Wide interfaces set
- ✓ Ready for Linux 2.6.13 + native component drivers
- ✓ Development Kit available for GNU/Linux environment
- ✓ Hosts a Zefeer module
- ✓ Industrial Operating Temperature Range (-40/+80°C)



Beryl is a turnkey system dedicated to high-performance industrial control applications based on Linux. It is powered by our high-end Zefeer DZQ module.

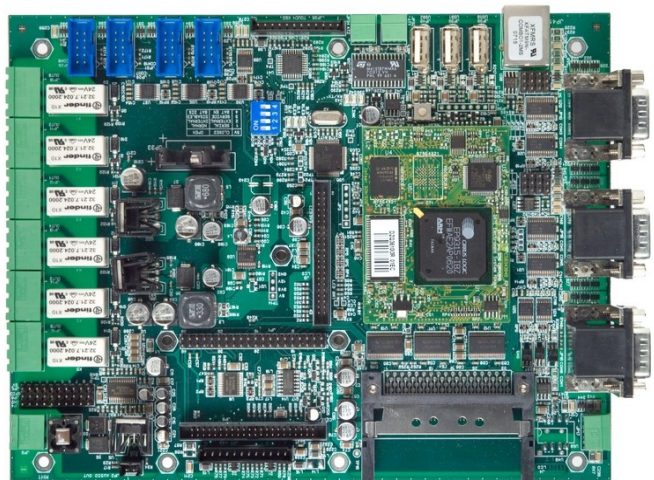
Beryl provides a lot of interfaces (Ethernet, up to 10 UARTs, USB, GPIOs) to allow the system to connect to and control a lot of external devices.

Beryl is the ideal solution for a system which needs to control several devices simultaneously.



Beryl is provided with the Linux kernel, the BSP and the development kit derived from the well-known Zefeer platform.

- Powered by a Zefeer DZQ module
- NAND + NOR + SDRAM memories
- 10/100 Ethernet
- M41ST87 Supervisor with Unique Electronic Serial Number
- 1 MBit Static Ram battery powered
- RS232 and RS485 (optoinsulated)
- RTC, Watchdog and Antitamper on board
- 6 Relays
- Expansion Bus connector
- PCMCIA and IDE
- Industrial Operating Temperature Range





<u>CPU</u>	Zefeer DZQ module – ARM9 Cirrus Logic EP9315 CPU
<u>Memory</u>	
SDRAM	64 MBytes
Flash NOR	32 MBytes
Flash NAND	128 Mbytes
SRAM	1 MBit Static RAM powered by RTC battery
<u>Available Interfaces</u>	
Ethernet PHY	10/100Mbps with leds (RJ45 connector)
UART	4 RS232 serial ports on DB9 connectors 4 RS232 serial ports on Box Headers connectors 2 selectable RS232/RS485 serial ports on DB9 connectors 1 RS485 optoinsulated serial port
GPIO	Available on pin strip connectors
Expansion Bus	2 x 20 lines expansion bus
USB	3 x Host ports
LCD	Available
<u>Other features</u>	
RTC, Watchdog	ST M41ST87 On Board, I2C connected, 3V lithium battery
Anti Tamper	2 Antitamper inputs, with log capabilities (ST M41ST87)
Input	Keyboard matrix and Touch keypad
Other	6 Relays, IDE Bus, PCMCIA slot
<u>Mechanical</u>	
Physical	210mm height x 165mm
Temperature	-45+85 °C operating temperature (Industrial Range)
<u>PSU</u>	
Single 24V± 5%	Through 2 poles connector
<u>Software</u>	
Multitasking OS	Linux 2.6.XX
Bootloader	U-boot
Features/Packages	TCP/IP USB Stack
<u>Agency approvals</u>	
CE Mark	CE Mark (EN 55022, EN 61000-4-3, EN 61000-4-4, EN 61000-4-6)