

SPECTRE V3 PLATFORM

BASIC INFORMATION



The SPECTRE v3 platform supports functionality:

Built on CPU ARM9 with 128 MB flash memory (32 MB firmware, 32MB firmware backup and 64 MB for user modules) and 128 MB RAM.

Input voltage range is from 10 Vdc to 60 Vdc

Power section includes protection against over voltage, because of E8 certification

Low power ready. Will be available in a later release by SW upgrade.

Ports:

- 2 x independent Ethernet 100 Mbps
 - POE extension and POE+. PSE 802.3af (802.3at) side is supported (15.4W on each port, 25W for POE+ on each port). PD 802.3af (802.3at) is supported by only one of ETH ports - Phase 2 (January 2015) optional HW extension.
- 1x USB 2.0 Host
- 1x I/O - 2x opto coupled Binary Input 10 – 60 VDC, 1x opto coupled Binary Output up to 60V/300mA
- One additional extension port:
 - serial interface RS232
 - serial interface RS232 + RS485/422, both galvanic separated
 - ETH3 - 3 x switched Ethernets (in total 3 independent ETH networks: 1 + 1 + 3 switched Ethernets)

On board MicroSD card holder

Optional On board Wi-Fi module. 802.11 b/g/n with AP/STA

An additional 3G/4G/CDMA module board (two independent cell modules with variable EDGE/HSPA+/LTE/CDMA technologies)

Antenna connectors MAIN, DIV, GPS

Two SIM card holders on the rear side of the router (given DIN holder on back side).

Temperature -40 °C to +75 °C for whole router, Humidity to 95%

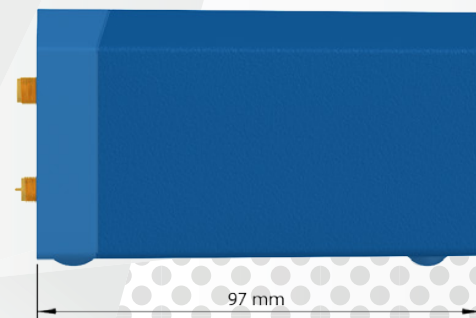
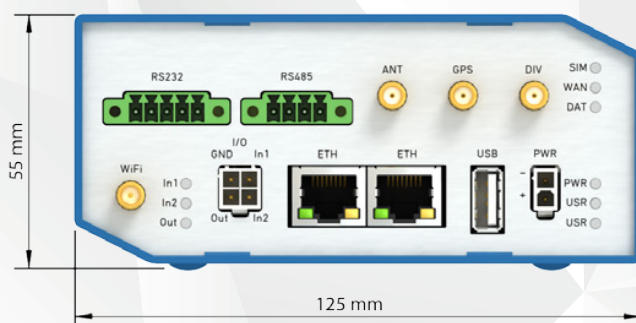
Firmware v2 compatible, Python support (without SDK)

Standard end directions are:

- CE (current EMC a ESD), E-Mark, A-Tick, C-Tick, Safety EN 60950
- Vibration (free fall, wheeler, static vibration for switchboard)
- UL (60950 i C1D2), FCC, PTCRB, US carriers certification

THE MAIN DIFFERENCES BETWEEN v2 AND SPECTRE v3 PLATFORM

Parameter	v2 line	v3 line	Why it si important
LTE chipset	MC7710 SIERRA WIRELESS	PLS8 GEMALTO	The newest LTE chipset works better with current LTE networks. It also provides higher temperature range and higher vibration immunity.
Power supply	10-30 VDC	10-60 VDC	The router's ability to use a broad range of power inputs gives it great flexibility.
ETH isolation barrier	0,5 kV	1.5 kV 2,5 kV in future different model	Enhanced, built-in isolation makes the router suitable for industrial applications. This is a competitive advantage.
Low power / Sleep mode	no	possible	Low Power/Sleep Mode makes the router energy efficient, and suitable for low power applications.
Backup battery	no	possible	The ability to switch over to a backup battery lets the router keep functioning during power outages.
SD card holder	optional board	on mainboard	An onboard SD card slot means that customers don't need to make complicated SD card installations on the optional port.
Wi-Fi	optional board	optional on mainboard	Onboard Wi-Fi means that customers don't need to make complicated Wi-Fi installations on the optional port.
CPU power	360 DMIPS	1360 DMIPS	A more powerful CPU provides bigger throughput and faster encryption.
Flash memory	16 MB	128 MB	More flash memory creates more space for customer user modules and applications.
RAM	64 MB	128 MB	Additional RAM makes the router faster.
M-RAM	128kB	128 kB	M-RAM saves and protects router statistics even if the power supply is switched off.
PoE	no	optional	Power Over Ethernet functionality makes the router suitable for a broad range of applications
Max. number of ETH ports	3	5	More connected devices



SPECTRE v3 platform routers are compatible with:

R-SEENET

SMART CLUSTER

R-WEBDOG

Conel s.r.o.

Contacts

Sokolská 71
562 04 Ústí nad Orlicí III.
Czech Republic

Phone: +420 465 521 020
Fax: +420 464 647 299
Email: sales@conel.cz
Web: www.conel.cz