

# + SPECTRE v3 LTE

**THIRD** GENERATION  
MORE POWER, MORE FEATURES, MORE IDEAS

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- CAMERA AND SECURITY SYSTEMS
- ENERGY AND HEAT INDUSTRIES
- ENVIRONMENTAL MEASUREMENTS
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- Extremely powerful CPU Cortex A8, 1 GHz (2000 DMIPS)
- Memory: 256 MB flash memory, 512 MB RAM, 128 kB M-RAM
- 3x independent Ethernet 100 Mbit/s (up to 5 Ethernet ports)
- Optional industrial built-in Wi-Fi module
- MicroSD card holder
- Extended input voltage range from 10 VDC to 60 VDC
- Extended operational temperature range from -40 °C to +75 °C
- Sleep mode for reducing electrical consumption
- PoE PD, PoE PSE

Spectre v3 LTE is available for all regions of the world  
**EMEA, LATAM, Australia, New Zealand**  
Spectre v3 routers can be equipped with a module that supports the **LTE 450 MHz** frequency.

**B+B SMARTWORX**®

+ CONEL CELLULAR ROUTERS

**ENABLING CONNECTED INTELLIGENCE**

# PRODUCT INFORMATION

| Power, Consumption, Environmental, IP cover      |                               |
|--------------------------------------------------|-------------------------------|
| Power supply                                     | 10 – 60 VDC                   |
| Consumption - Idle / Average / Peak / Sleep Mode | 2,5 / 4 / 11 W / 10 mW        |
| Temperature range – Operating / Storage          | -40 to +75 °C / -40 to +85 °C |
| Cold start                                       | -35 °C / -40 °C +5 min        |
| Humidity – Operating / Storage                   | 0 to 95 % / 0 to 95 %         |
| IP cover – Standard                              | IP30                          |

| Mechanical                 |                                 |
|----------------------------|---------------------------------|
| Casing                     | Plastic, Metal                  |
| Dimensions of metal casing | 55 x 97 x 125 mm                |
| Weight - Metal / Plastic   | 375 g (metal) , 170 g (plastic) |

| Ports, LED, Antennas      |                                                                               |
|---------------------------|-------------------------------------------------------------------------------|
| Two independent Ethernets | Ethernet 10/100                                                               |
| Expansion port            | 3 port switch Ethernet 10/100                                                 |
|                           | RS232                                                                         |
|                           | Combined RS232 + RS485                                                        |
|                           | Combined RS232 + RS485 + ETH                                                  |
|                           | Isolation strength of Ethernet (ETH2) and RS232, RS485 ports is up to 2.5 kV. |
| SIM                       | 2 Mini SIMs (2FF)                                                             |
| USB                       | 2.0 USB host                                                                  |
| I/O                       | 2 binary inputs, 1 binary output                                              |
| LED                       | PWR, USR, POE, SIM, WAN, DAT, IN0, IN1, OUT, Ethernet                         |
| ANT + DIV antennas        | SMA connectors                                                                |
| GPS antenna               | SMA connector                                                                 |
| Wi-Fi antenna - *optional | R-SMA connector                                                               |

| PoE PD: parameters for opposite PSE |             |
|-------------------------------------|-------------|
| Input voltage range                 | 42.5 – 57 V |
| Power available                     | 25.50 W     |
| Maximum current                     | 600 mA      |

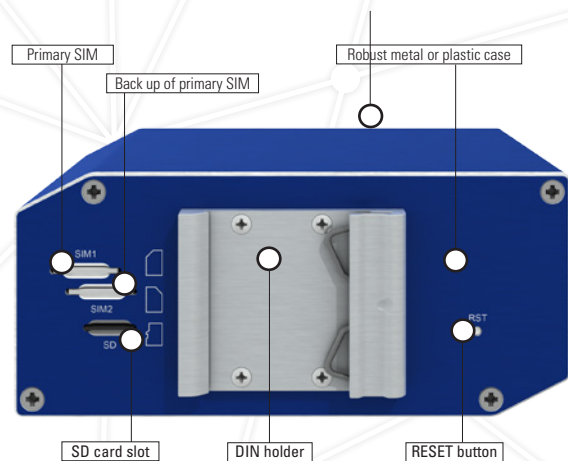
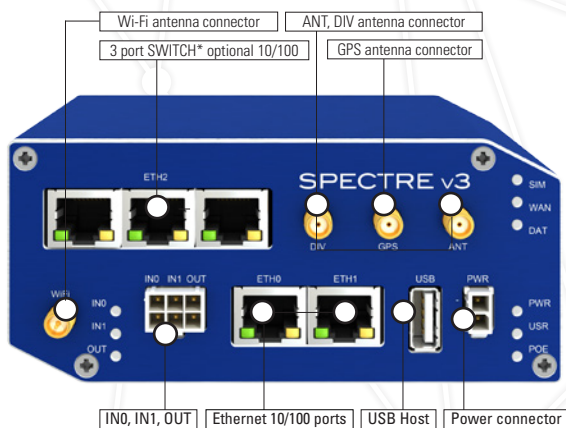
| PoE PSE parameters  |                          |
|---------------------|--------------------------|
| Power supply needed | 44 – 57 V, 60W           |
| Power available     | 2 x 25.50 W (ETH0, ETH1) |

| Features                   |                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Networking                 | DHCP, NAT/PAT, VRRP, DynDNS client, VLAN, QoS, DMVPN, PPPoE Bridge, Dial-in, NTP client-server, IGMP, BGP, OSPF, RIP, SMTP, SMTPS, SNMP v1/v2c/v3, Backup routes                        |
| Security                   | HTTPS, SSH, Firewall, VPN tunnels, SFTP                                                                                                                                                 |
| VPN tunnelling             | IPSec, OpenVPN, L2TP, PPTP, GRE, EasyVPN                                                                                                                                                |
| Configuration              | Web server, SSH, Four configuration switchable profiles, Automatic configuration update from server, Automatic firmware update from server, Backup configuration, Restore configuration |
| Diagnostic                 | One CLICK report - current configuration / factory identification / system log / kernel log / reboot log / routing table                                                                |
| Statuses                   | Network Status, Mobile Status, DHCP Status, IPSec Status, Statistics for two previous months                                                                                            |
| Logs                       | System Log, Reboot Log, Kernel Log                                                                                                                                                      |
| Controlling and diagnostic | SMS, SNMP v1/v2c/v3, Statuses                                                                                                                                                           |
| Scripts                    | StartUp script, Up/Down script                                                                                                                                                          |
| Scripting languages        | Bash, Python                                                                                                                                                                            |
| Other                      | Robust firmware update                                                                                                                                                                  |

| Mobile technology (by the module)                                               | MAX download | MAX upload   |
|---------------------------------------------------------------------------------|--------------|--------------|
| GSM/GPRS/EDGE                                                                   | 236,8 Kbit/s | 118,4 Kbit/s |
| UMTS/HSPA+ & GPRS/EDGE                                                          | 21,1 Mbit/s  | 5,76 Mbit/s  |
| LTE & UMTS/HSPA+ & GPRS/EDGE                                                    | 100 Mbit/s   | 50 Mbit/s    |
| Wi-Fi 802.11 b/g/n - *optional (AP/STA)<br>10 clients supported (-40 to +75 °C) | 80 Mbit/s    | 80 Mbit/s    |

| Technical Parameters of GPS *(version of the router using LTE 450MHz VF module isn't equipped with GPS) |                  |
|---------------------------------------------------------------------------------------------------------|------------------|
| GPS protocol                                                                                            | NMEA 0183 v3.0   |
| Frequency                                                                                               | 1575.42 MHz      |
| Antenna                                                                                                 | 50 Ohms – active |

| Technical Specifications of microSD card |                                                  |
|------------------------------------------|--------------------------------------------------|
| Supported technologies                   | SDHC, SDXC                                       |
| Supported capacity                       | SDHC – up to 32 GB<br>SDXC – from 32 GB to 64 GB |



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