ROUTERS & GATEWAYS

SmartFlex™

LTE ROUTER ... more power, more features, more ideas

PRODUCT FEATURES

- Powerful CPU and enhanced memory to support high demand customer applications
- Extended operational temperature range from -40 °C to +75 °C
- 10-60 VDC operated with transient and reverse polarity voltage protection
- Flexible Port options, such as 3-port Switch, Ethernet and RS232/422/485 serial ports with isolation
- GPS and GLONASS support
- MicroSD card holder
- Low power consumption mode for solar and battery power applications
- Optional industrial grade WiFi
- PoE PD, PoE PSE, In/Out, USB Host
- Advanced security features







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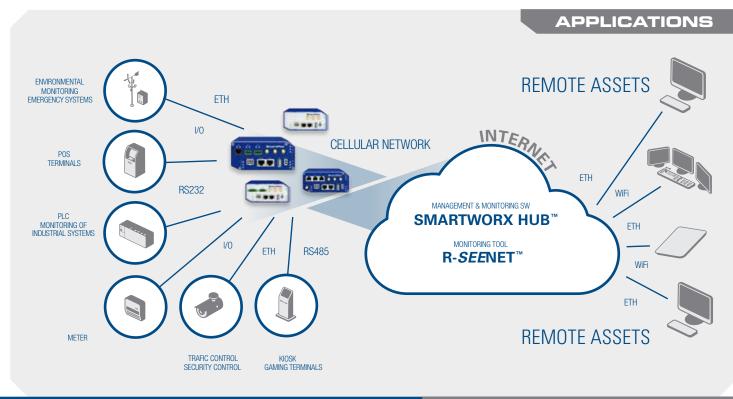
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The **SmartFlexTM** cellular router provides secure Internet connectivity for devices and LANs via the cellular networks. It can be used to provide automatic wireless failover for wired networks, wireless connectivity for devices in remote locations where cable connections are impractical, and wireless connectivity for mobile assets. With upload speeds of up to 50 Mbit/s and download speeds of up to 100 Mbps, the **SmartFlexTM** provides ample bandwidth, even for applications that require video.



The **SmartFlex[™]** is designed and manufactured for use in tough environmental conditions. Specifications include wide operating temperature ranges from -40 to +75 °C (-20 to +60 °C LTE450 module). It accepts input voltage ranges from **10 V DC** to **60 V DC** and is equipped with sleep mode for reducing electrical consumption

IThe **SmartFlex**TM places intelligence out at the network edge with an extremely powerful Cortex A8 CPU at 1GHz, 256 MB flash memory, 512 MB RAM and 128kB M-RAM, providing full support for LTE (long Term Evolution) speeds and applications. A secure Web interface allows users to configure and manage the **SmartFlex**TM from remote locations. The router can also upgrade its configuration and firmware from the operator's central server, allowing for simultaneous mass reconfiguration of every router on the network. Users may insert Linux scripts and they can create multiple configurations for the same router. Users may switch from one configuration to another at any time.

LEADING THE INDUSTRY

The flexible **SmartFlex™** can be configured to suit any application. The standard configuration includes 2 Ethernet ports with 2 independent LANs/IP addresses. The standard configuration also includes 1 USB host port, 1 microSD card holder, 2 SIM card holders for automatic failover to an alternate service provider, 2 binary inputs(I/O) , 1 binary output (I/O) and onboard GPS. An optional built-in WiFi module is also available, with industrial grade operating temperature ranges from -40 to +75 °C (-20 to +60 °C LTE450 module). Further optional boards available: 3x ETH (the router can be configured with up to 5 total Ethernet ports and 3 independent LANs/IP addresses) or ETH - RS232 - RS485 (isolation strenght up to 2.5kV) or RS232.

The **SmartFlex[™]** supports real time data encryption and the creation of VPN tunnels using IPsec, OpenVPN and L2TP. It supports DHCP, NAT, NAT-T, DynDNS, NTP, VRRP, control by SMS, and numerous other functions, as well as additional software like SmartCluster VPN Server and R-SeeNet.

TECHNICAL SPECIFICATION

| Power, Consumption, Environmental, IP cover | |
|--|----------|
| Power supply | 10 - 60 |
| Power consumption – Idle / Average / Peak / Sleep Mode | 2.5 W / |
| Temperature range – Operating / Storage | -40 to + |
| Temperature range LTE450 – Operating / Storage | -20 to + |
| Humidity – Operating / Storage (non condensing) | 0 to 95 |
| Cold Start | -35 °C |
| Operating Altitude | 2000 m |
| Ingress Protection Rating | IP30 |
| | |

0 VDC (2-Way Molex connector) /4W/11W/10mW +75 °C / -40 to +85 °C +60 °C / -40 to +85 °C 5 % / 0 to 95 % n / 70 kPa

Number of clients: 10

| | SR303 - EMEA Region | SR306 - APAC & LATAM | SR307 - LTE450 |
|-----------|--|--|--|
| LTE | Bit rate 100 Mbps (DL) / 50 Mbps (UL) | Bit rate 100 Mbps (DL) / 50 Mbps (UL) | Bit rate 100 Mbps (DL) / 50 Mbps (UL) |
| | 3GPP release 8 compliant | 3GPP release 9 compliant | 3GPP release 9 compliant |
| | Supported frequencies: | Supported frequencies: | Supported frequencies: |
| | 800/900/1800/2100/2600 MHz | 800/900/1800/2100/2600 MHz | 450/800/1800/2600 MHz |
| WCDMA | Bit rate 42.0 Mbps (DL) / 5.76 Mbps (UL) | Bit rate 42.0 Mbps (DL) / 5.76 Mbps (UL) | Bit rate 42.0 Mbps (DL) / 5.76 Mbps (UL) |
| | Supported frequencies: 900/2100 MHz | Supported frequencies: 850/900/1900/2100 MHz | Supported frequencies: 900/2100 MHz |
| GPRS/EDGE | Bit rate 237 kbps (DL) / 59.2 kbps (UL) | Bit rate 236 kbps (DL) / 59.2 kbps (UL) | Bit rate 236 kbps (DL) / 59.2 kbps (UL) |
| | Supported frequencies: 900/1800/1900 MHz | Supported frequencies: 850/900/1800/1900 MHz | Supported frequencies: 900/1800 MHz |

WiFi - 802.11 a/b/g/n, AP or Client mode

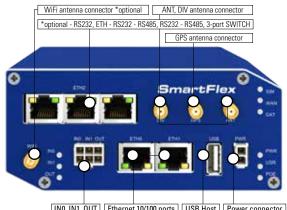
Supported WiFi band 2.4 GHz, 5.4 GHz Encryption: None, WEP, TKIP, AES 5 GHz supported channels - 36, 40, 44, 48, 52, 56, 60, 64, 149, 153, 157, 161, 165 2.4 GHz supported channels - 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14

Industry Certifications & Approvals

| Radio for general LTE | ETSI EN 301 511 v9.0.2, ETSI EN 301 908–1 v5.2.1, ETSI EN 301 908-2 v5.2.1, ETSI EN 301 908-13 v5.2.1 | | | | |
|-----------------------|---|--|--|--|--|
| Radio for LTE450 | ETSI EN 301 908-1 v6.2.1, ETSI EN 301 908-13 v6.2.1, ETSI EN 301 489-24 v1.5.1 | | | | |
| Emissions/ Immunity | IEC 61000-6-2:2005, ETSI EN 301 489-1 v1.9.2, EN 55022:2010 | | | | |
| Safety | EN 60950-1:06 ed.2 (not Hazardous Locations), EN 62311:2008 | | | | |
| Vehicle | E8 | | | | |
| Environmental | RoHS, RoHS2, REACH, WEEE | | | | |

Mechanical

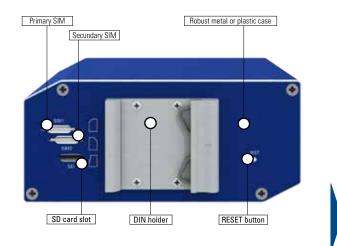
Plastic or metal case with plastic or metal DIN rail **Enclosure Dimensions** Weight Plast/Metal



[IN0, IN1, OUT] Ethernet 10/100 ports USB Host Power connector

87x30x127mm (150mm including wall month sides) 170 g/375 g

Authentication: Open, Shared, WPA–PSK, WPA2–PSK



SMARTWORX HUB[™] R-*SEE*NET

| Features | | | |
|--|---|--|--|
| Network and Routing | DHCP Server, , DHCP Client, NAT/PAT, VRRP, Dynamic DNS client, DNS proxy, VLAN, QoS, NTP Client/ Server, IGMP, BGP, OSPF, RIP, SMTP, SMTPS, SNMP v1/ v2c/ v3, Backup routes, PPP, PPPoE, SSL, Port Forwarding, Host Port Routing, Ethernet Bridging | | |
| Security | HTTPS, SSH, VPN tunnels, SFTP Firewall (IP Filtering, MAC address filtering, Inbound and outbound Port filtering) | | |
| VPN tunnelling | Open VPN client and server and P2P, L2TP, PPTP, GRE, EasyVPN, DMVPN IPSec with IKEv1 and IKEv2 | | |
| Configuration | Web server, SSH, Four configuration switchable profiles, Automatic configuration update from server | | |
| Firmware Management | Backup configuration, Restore configuration Automatic firmware update from server, Locally via LAN and USB or remotely OTA (HTTP, HTTPS), Over-the-Air software updates, Over-the-Air cellular module update from FW | | |
| Diagnostic | One CLICK report — current configuration / factory identification / system log / kernel log / reboot log / routing table, Remote diagnostics possible via SSH | | |
| Status | Network Status, DHCP Status, IPSec Status, Statistics history for last 60 days | | |
| Log | System Log, Reboot Log, Kernel Log | | |
| Controling and diagnostic | SMS, SNMP v1/v2c/v3, Statuses, Log | | |
| Event Engine | StartUp script & Up/Down script (Bash), Digital Input, Network Parameters, Data Usage, Timer, Power, Device Temperature. Report Types: RAP, SMS, email, SNMP Trap, TCP (csv, xml, binary) | | |
| Support and Warranty | 3 years warranty, Free device software upgrades, Optional warranty extension | | |
| Other | Support of IPv6 | | |
| Ports, LED, Antennas | | | |
| Up to 5x ETH ports | RJ45, 10/100 Mbps | | |
| SIM | 2 Mini SIMs (2FF) (rear panel) | | |
| LED Indicators | PWR, DAT, WAN, ETH, SIM, USR, POE, INO, IN1, OUT | | |
| 3x ANT - ANT, DIV, GPS (no for LTE450 model) | SMA connectors | | |
| WiFi antenna - *optional | R-SMA connector | | |
| USB | USB Host connector 2.0 | | |
| I/O | 6-Way Molex connector – 2x binary input, 1x binary output | | |
| SD Card | 1x Micro SD Card slot (rear panel) | | |
| RST | RESET button (rear panel) | | |
| *optional 3-port SWITCH | 3x RJ45, 10/100 Mbps | | |
| *optional ETH - RS232 - RS485 | RJ45, 4pin terminal block, 3pin terminal block connectors – Isolation up to 2.5 kV | | |
| *optional RS232 - RS485 | 5pin terminal block, 4pin terminal | 5pin terminal block, 4pin terminal block connectors – Isolation up to 2.5 kV | |
| *optional RS232 | RJ45 | | |
| PoE Parameters | PoE PD | PoE PSE | |
| Input voltage range | 42.5 – 57 V | 44 – 57 V, 65 W | |
| Power available | 25.50 W | 2x 25.50 W (ETH0, ETH1) | |
| Maximum current | 600 mA | | |
| Insul. Strenght | 1.5 kV from the router | none | |

Standards IEEE 802.3at-2009 (PoE+) and IEEE 802.3af-2003 (PoE) supported. Cabling needed is Category 5, up to 12.5 Ω. It is possible to use a passive PoE injector.



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