+ ROUTERS & GATEWAYS

SmartFlexLTE & LAN 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





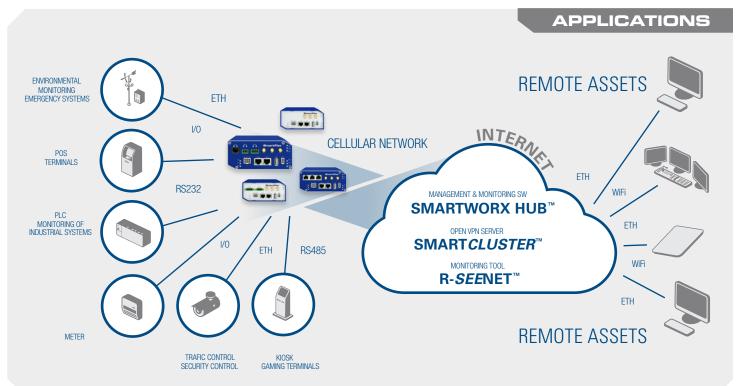




SmartFlex™

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





LEADING THE INDUSTRY

The **SmartFlex**TM 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 **SmartFlexTM** 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.

The flexible **SmartFlex**TM 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 - RS485 (isolation strenght up to 2.5kV) or RS232.

The **SmartFlex**TM 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 VDC (2–Way Molex connector)
Power consumption – Idle / Average / Peak / Sleep Mode	2.5 W / 4W / 11 W / 10 mW
Temperature range – Operating / Storage	-40 to +75 °C / -40 to +85 °C
Temperature range LTE450 — Operating / Storage	-20 to +60 °C / -40 to +85 °C
Humidity – Operating / Storage (non condensing)	0 to 95 % / 0 to 95 %
Cold Start	-35 °C
Operating Altitude	2000 m / 70 kPa
Ingress Protection Rating	IP30

Cellular module parameters					
	SR303 - EMEA	SR305 - NAM	SR306 - APAC & LATAM	SR307 - LTE450	
LTE	Bit rate 100 Mbps (DL) / 50 Mbps (UL) Supported frequencies: 800/900/1800/2100/2600 MHz	Bit rate 100 Mbps (DL) / 50 Mbps (UL) Supported frequencies: 700/700/850/AWS (1700/2100)/1900 MHz	Bit rate 100 Mbps (DL) / 50 Mbps (UL) Supported frequencies: 800/900/1800/2100/2600 MHz	Bit rate 100 Mbps (DL) / 50 Mbps (UL) Supported frequencies: 450/800/1800/2600 MHz	
WCDMA	Bit rate 42.0 Mbps (DL) / 5.76 Mbps (UL) Supported frequencies: 900/1800/2100 MHz	Bit rate 42.0 Mbps (DL) / 5.76 Mbps (UL) Supported frequencies: 850/AWS (1700/2100)/1900 MHz	Bit rate 42.0 Mbps (DL) / 5.76 Mbps (UL) Supported frequencies: 850/900/1900/2100 MHz	Bit rate 42.0 Mbps (DL) / 5.76 Mbps (UL) Supported frequencies: 900/2100 MHz	
GPRS/ EDGE	Bit rate 237 kbps (DL) / 59.2 kbps (UL) Supported frequencies: 900/1800 MHz	Bit rate 236 kbps (DL) / 59.2 kbps (UL) Supported frequencies: 850/900/1800/1900 MHz	Bit rate 236 kbps (DL) / 59.2 kbps (UL) Supported frequencies: 850/900/1800/1900 MHz	Bit rate 236 kbps (DL) / 59.2 kbps (UL) Supported frequencies: 900/1800 MHz	

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

Supported WiFi band 2.4 GHz, 5.4 GHz Number of clients: 10

Encryption: None, WEP, TKIP, AES Authentication: Open, Shared, WPA-PSK, WPA2-PSK

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 EN 60950-1:06 ed.2 (not Hazardous Locations), EN 62311:2008 Safety

Vehicle E8

Environmental RoHS, RoHS2, REACH, WEEE

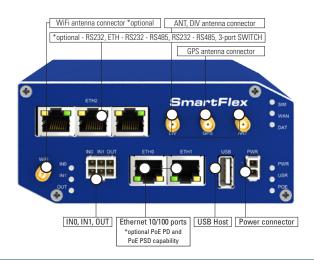
Approvals PTCRB, R&TTE, CE, FCC, IC, UL Carrier Approval: AT&T

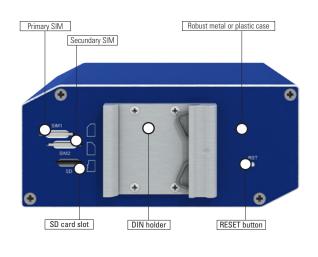
Mechanical

Plastic or metal case with plastic or metal DIN rail

Enclosure Dimensions Weight Plast/Metal

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





R-SEENET

SMART*CLUSTER*

SMARTWORX HUB™

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 Backup configuration, Restore configuration
Firmware Management	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
1/0	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 block connectors — Isolation up to 2.5 kV
*optional RS232	RJ45
*optional LAN version of router - without cellular module	3x RJ45 SWITCH, 10/100 Mbps, no cellular module

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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