



## SCR200-LAN



The SCR200-LAN professional router is a smart, compact and versatile device for your M2M and IoT applications.

### Focused on the basics – for industry and buildings

The routers of the SCR series are IoT gateways of the special kind. They provide latest technology in a compact, flexible mountable housing for a very attractive price.

The SCR series is available in LTE and LAN versions, both optionally as I/O variant. Users can connect both, IP-based and serial devices, to this Smart Device locally. This allows to transform elder existing plants in modern IT environments with a retrofit.

The two mounting directions make an SCR suitable for both, a switch cabinet in industrial environments and flat building connection boxes.

Besides the INSYS operating system iCom OS, the iCom SmartBox is also on board, an integrated Linux environment that allows to execute scripts and programs directly on the router based on so-called containers.

Therefore, an SCR router can not only be used for secure remote maintenance and control, but also for capturing and processing application data within the scope of edge computing. This also allows to monitor the conditions and values of connected devices and realise reporting or benchmarking across different plants thanks to a plug & play connection to Cloud services.

#### Technical highlights

- Compact, flat housing
- Installation in distribution boxes and switch cabinets
- Wall and DIN rail mounting
- Interfaces for IP-capable and serial devices
- Stateful firewall also in VPN tunnel
- Strengthened operating system
- Integrated Linux environment for edge computing (iCom SmartBox)
- PPPoE for external ADSL modem
- Quick start for DELTA LOGIC Connectivity Service

# SCR200-LAN

## Technical details

### Router

<b>Function</b>	Up to 5 IP networks local (LAN) or as WAN, VLAN incl. tags and trunk ports; own DHCP server per IP network, static routing, routing priority configurable; dynamic routing OSPF, BGP, RIP, RIPv2, RIPng; netfilters: DNAT, SNAT, IP/port forwarding, netmapping, DNS relay, dynDNS support
<b>Security</b>	OpenVPN (client and server), IPsec, GRE (incl. multipoint), DMVPN, IP filters (stateful firewall) also in VPN tunnel, several VPN tunnels in parallel possible, MAC filters, PPTP server
<b>Redundancy</b>	WAN chains: several WAN accesses configurable (prioritised and event-controlled), WAN groups: parallel operation of WAN interfaces or VPNs, several OpenVPN servers

### Ethernet switch, interfaces

<b>Ports</b>	2 x RJ45, 10/100 MBit/s, full/half-duplex, auto MDI-X, 1.5 kV isolation voltage
<b>Function</b>	Each port can be freely assigned to the IP networks, Link up/down detection, configuration port
<b>Events (selection)</b>	Change: input, Ethernet port, WAN chain, profile, supply input, cellular field strength; timer expiry, firewall violation, login attempt detection, pulse sequence at digital input, counter
<b>Event-controlled actions (selection)</b>	Messages via e-mail, SNMP traps, MCIP; switching profile, switching connection, changing modem state, starting timer, switching output or pulse sequence, activating firmware, reset, restart SmartBox container

### Serial interface

<b>RS232 (Serial 1)</b>	1 x RS232/D-Sub-9 (m)
<b>Functions</b>	Serial-Ethernet gateway (incoming and outgoing connections, Modbus TCP/RTU gateway, modem emulation, editable AT answer list, phone number conversion to IP addresses), PPPoE for external ADSL modem

### Operation

<b>Wizards</b>	Configuration of connection incl. VPN, adding LAN networks, quick start of DELTA LOGIC Connectivity Service
<b>Help</b>	Web interface with inline help texts, online help, FAQ, exemplary profiles, plausibility check
<b>Configuration</b>	Local and remote web interface (http, https; with session management), command line interface (CLI), Telnet, SSH, ASCII and binary file (also for backup), configuration management with switchable profiles (event-controlled)
<b>Indications (LEDs)</b>	Power, WAN (Internet connection)



In addition to an internal and an external LAN port, the router also has an RS232 interface, with which serial devices can be connected directly to the router and thus be integrated into IP networks.

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Create VPN connection easily and securely. With the DELTA LOGIC Connectivity Service.

<https://connectivity.deltalogic.de>

<b>Authentication</b>	Several users, different user roles and rights, certificate-based authentication with revocation list
<b>Diagnostics</b>	SNMP traps and agent, configurable system logs, remote syslog, support packet, help functions Diagnosis tools: ping, tcpdump, traceroute, DNS lookup, AT commands
<b>Firmware updates</b>	Incremental, fail-safe, automated via update server (http, ftp, https, ftps)
<b>System time</b>	NTP client and server, real-time clock
<b>Edge Computing</b>	
<b>Icom SmartBox</b>	Linux programming environment: creation of LXC containers for programs and scripts (apps), ARMv7 CPU, 448 MB RAM, 7 GB flash memory
<b>Supply</b>	
<b>Voltage</b>	12 ... 24 V DC (± 20%)
<b>Terminals</b>	2-pin terminal connectors, rigid/flexible conductors up to 2.5 mm <sup>2</sup>
<b>Power consumption</b>	typical approx. 2.0 W, max. 3.0 W Sleep mode: typical approx. 55 mW
<b>Sleep mode</b>	Sleep mode: Energy conservation mode with event-triggered activation, stopping via timer, reset or re-establishing supply
<b>Ambient conditions</b>	
<b>Dimensions (W x D x H) in mm</b>	Industrial distribution box (switch cabinet): 41.5 x 105 x 90 Building distribution box: 105 x 41.5 x 90
<b>Operating temperature</b>	-30...+70 °C -30...+75 °C under restricted conditions (refer to <a href="http://www.insys-icom.com/restricted">www.insys-icom.com/restricted</a> )
<b>Humidity</b>	0...95% (non-condensing)
<b>Mounting/protection class</b>	DIN rail mounting/housing: IP40, terminals: IP30
<b>Approvals &amp; Standards</b>	
<b>Certifications</b>	CE, FCC Part 15 Class B, IC
<b>EMC</b>	Emission: EN 55032 Class B; Immunity: EN 61000-6-2, EN 55024
<b>Security</b>	IEC 62368-1
<b>Environmental conditions</b>	Temperature tests as per EN 60068-2-1, EN 60068-2-2, EN 60068-2-14, EN 60068-30