

All In One



The new **s.QUAD C** radio terminals combine the forward-looking design and unique performance features of the existing s.QUAD range with an additional mobile radio channel. Alarming continues to be primarily via the proven and reliable POCSAG technology. In addition, the s.QUAD C can also be alerted via the cellular network (hybrid alerting) and it offers the option of feedback, of which there are various forms:

- Technical feedback of the task force
- Tactical feedback of the task force
- Status message of the task force / device

With its integrated mobile radio module, the **s.QUAD C35** offers the possibility of the aforementioned hybrid alerting as well as feedback.

The **s.QUAD C45** also has GPS and a Bluetooth® iBeacon, which enable outdoor and indoor localization. With their help, emergency forces can be localized or their distance to the scene can be determined. In addition, it is possible to send an emergency call via the OK button (SOS button).

The s.QUAD C35 and s.QUAD C45 come with a new LTE-M (LTE Cat. M1) cellular module. The device has integrated cellular connectivity via eSIM. This eliminates the need to handle SIM cards.

Despite the use of modern mobile technologies, the proven standard AA round cell can still be used. This guarantees compatibility with the s.QUAD X15/X35 chargers.

The wireless iBeacon allows the s.QUAD to be connected to a compatible smartphone or the s.ONE Mobile App, which enables additional options.

The most important features

- Excellent reception characteristics (even with active cellular connection)
- Use of an eSIM with integrated connectivity
- Positioning (s.QUAD C45)
 - Outdoor: GPS
 - Indoor: Bluetooth® iBeacon
- SOS emergency call function with position notification (s.QUAD C45)
- Extremely robust, dust- and waterproof
- Alarm volume > 95 dB(A) in 30 cm
- Display with high resolution for over 200 characters per page
- Compatibility with s.QUAD X15 / X35 accessories
- Update of configuration and firmware via mobile network
- Option V: Message encryption with DiCaI-IDEA (128 bit), BOSKRYPT
- The s.QUAD C is available in either brown or black housing



s.QUAD C35/C45

	Performance features	Technical data
Standards, approvals and environmental conditions	Guidelines and standards	RED 2014/53/EU (Radio Equipment Directive) ETSI EN 300 390 (Radio: POCSAG receiver) EN 600068-2-32 (Drop test from 2 m height) EN 60529 (IP67)
		Please refer to the Declaration of Conformity for details on the other standards.
	Guidelines and standards	-20 °C to +55 °C
Paging	Frequency ranges (other frequencies on request)	VHF 2-m-Band 146-155/155-164/164-174 MHz UHF 70-cm-Band 430-470 MHz
	Frequency processing	PLL, frequency adjustable over the entire frequency range with programming software
	Channel spacing	12.5, 20/25 kHz programmable
	Protocol	POCSAG and FLEX
	Call sensitivity* *typical values in the 2 m band (best position on the salt man)	at 512 bit/s 2.0 µV/m at 1200 bit/s 2.5 µV/m at 2400 bit/s 3.0 µV/m
Main features	Signal strength indicator (RSSI)	Five-level display of the signal strength at the current location
	Call addresses	<ul style="list-style-type: none"> • 64 main addresses (RICs) with 4 sub-addresses each, frame-independent • 256 address names with 8 characters
	Alerting	<ul style="list-style-type: none"> • Loudness > 95 dB(A) at 30 cm • Audio alarm tones • Vibration alarm • Multi-colour alarm LED, 7 colours individually programmable • Up to 64 user profiles or switchable RICs
	Messages	<ul style="list-style-type: none"> • Over 100 individual messages with up to 512 characters • 256 fixed texts with 32 characters each can be stored • Up to 2 additional message folders • PIN-protected message filing
	Supported functions	<ul style="list-style-type: none"> • Express Alarm • OAP (On-Air Programming) system messages • Over-the-air remote programming for configuration and firmware
	Options	<ul style="list-style-type: none"> • Message encryption: DiCal-IDEA (128 bit), BOSKRYPT • Multichannel, Scanner
Mobile radio	Frequency ranges	800/900/1800 MHz (UTRA Band 20/8/3)
	Connection	LTE Cat. M1 (LTE-M)
	Network identification	Built-in eSIM
Localisation	Receiver	Nordic GPS engine
	GNSS system	GPS L1 C/A
	Sensitivity in tracking mode	-155 dBm
	Time-To-First-Fix (TTFF)	Cold: 36 sec, assisted: 3 sec, hot: 1.3 sec
Wireless compatibility	Standard	Low Energy, Core V5.2
	Supported functions	iBeacon (localisation), compatible with s.ONE App
Display and housing	Display	<ul style="list-style-type: none"> • High resolution greyscale display (146 x 128 pixels, 106 DPI) • White backlight • Over 200 characters per page can be displayed • Different font sizes with 6, 7 or 8 lines • Vertical and horizontal menu and font guidance (programmable) • Scrollable font
	Dimensions (H x W x D)	81 x 64 x 22 mm
	Weight (incl. battery)	115 g
Power management	Battery type	NiMHplus rechargeable battery (standard AA cell) or alkaline as fallback
	Operating times (eco mode)	POCSAG reception only: approx. 400 h POCSAG + permanent data: approx. 100 h POCSAG + permanent data + GPS: approx. 50-70 h
Accessories	Programming set	Programming tray with Windows-based programming software
	Chargers	<ul style="list-style-type: none"> • Charger with relay and antenna connection • Multi-chargers
	Carrying aids	<ul style="list-style-type: none"> • Clip holster (included) • Leather tote bag

Subject to change without notice



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