I.SEARCH

The modular alarm server

The I.SEARCH modular alarm server monitors, informs, alarms, connects and controls. The radio and IP-based I.SEARCH system is modular in design and can be adapted to various needs in many ways. It offers a variety of interfaces to different input and output systems, which can be connected as required and interconnected using predefined processes.
Integration into the customer's IT and PBX environment can be implemented on a project-specific basis.
Messages or alarms can be sent via a local paging network or a national SMS message. Larger areas can be covered by a single transmitting station. For more complex building structures, multiple transmitters can be installed and operated.

The I.SEARCH function blocks:

- Integrated power supply unit with connection for emergency power battery
- Controller card (fanless industrial computer)

I.SEARCH expansion variants:

- Mobile radio module 2/3/4G
- 16 input/output contacts
- Integrated transmitter
- PABX interfaces

Optional software modules

Interfaces:

- ESPA 4.4.4
- TAP
- SNMP
- SMTP (E-Mail)
- ASCII Simple

Software modules:

- Cluster redundancy module
- Data Replication
- Encryption
- Escalation Management
- Absence Management

External devices/accessories:

- SIP PABX Gateway
- Input contacts
- I.SITE Transmitter
- Multi chargers
- Tax receiver
- Monitor receiver

Key performace features

- Local alarm server
  - Multi messaging channels
  - Different input channels
  - Telecontrol actions
- Optional modules
  - Absence
  - Escalation
  - High availability
- Monitoring
  - Condition monitoring
  - SNMP module
  - Monitoring receiver
- Wide range of accessories
  - Pager
  - Multi charger
- Robust hardware
  - MTBF: > 7 years
  - Industry standard
  - Fanless

I.SEARCH

	Performance features	Technical data
General	Operating temperature range	-25 °C to +55 °C
	Cooling	Convektion
	Input voltage	90 - 264 VAC/47 - 63 Hz (external power supply)
	Maximum power consumption	80W, typ. 25 W (base unit, including 25W transmitter)
	Compliance with EU regulations: RoHS Recast Directive, 2011/65/EU WEEE Directive, 2012/19/EU	Safety EN 60950-1 EMC ETSI EN 301489-1 ETSI EN 301489-2 RoHS EN 50581: 2012
General radio data	Frequency sub-bands (variants)	144 - 174 MHz 400 - 470 MHz
	Frequency stability (carrier)	±1.5 ppm
	Number of channels (per frequency band)	99
	Channel spacing	12.5/20/25 kHz
	Modulation/demodulation type	DFSK max. 2.5 kHz (bei 12.5 kHz channel spacing) DFSK max. 4 kHz (bei 20 kHz channel spacing) DFSK max. 5 kHz (bei 25 kHz channel spacing) FM/PM 300 … 3000 Hz
	Switching bandwidth	Switching bandwidth of the entire available frequency range
	POCSAG transmission rate	512, 1200 or 2400 Baud
	Antenna connection	50 Ohm koaxial N-Type
Controller (BSC)	CPU	615 MHz, 64-Bit
	RAM	1 GB
	Flashdisk	2 GB, safe against mains failure
	Operating system	Linux
	Peripheral interfaces	2x Gigabit Ethernet RJ45, 4x USB 2.0, 1x VGA (1920x1200)
Power supply unit (PS)	Maximum output voltage/output current	13.8 V/8 A and 5 V/5 A (at 150 W) optional: 13.8 V/13 A and 5 V/5 A (at 200 W)
	Deep discharge protection	yes
	Efficiency	80 %, 10-15 A typical load
	Battery connection	Screw terminals, 12 V
	Autonomy (optional battery operation for uninterrupted bridging of power failures)	> 4 h with battery 12 V 12 Ah (with transmission power of 25 W and duty cycle of 25 %)
Transmitter (TX)	Output power	25 W +/- 1.2 dB, from 1-25 W in 1 W steps
	Degree of utilization	100 %
	Intermodulation attenuation	> 40 dB
	Adjacent channel power	< -70 dBc (bei 20 kHz channel spacing)
	Secondary transmissions	< 250 nW (30 MHz to 1 GHz)
Inputs/Outputs	Digital Input	Low: 0VDC High: 18-32VDC (6 mA)
	Digital Output	Low: <1VDC High: 5.5-32VDC/250 mA
	Minimum input pulse duration	50 ms
	LTE module	2G/3G/4G module SimCom SIM7100E LTE mPCIe module
Mechanical	Dimensions (W x H x D)	600 mm x 350 mm x 500 mm (inside 19“, 6 HE)
	Weight	approx. 6 kg

Specifications subject to change

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