

Swissphone ITC2100-BOS



The ITC2100-BOS base station is a fundamental component in wireless alert systems. This ITC2100-BOS is a modern radio base station for deployment in synchronized POCSAG paging alert networks. The ITC2100-BOS is backwards compatible to its predecessors ITC2000 and ITC600, and can be added to these alert networks as well, for example as a network extension.

The ITC2100-BOS can be programmed and implemented quickly using web browser, both on location or remotely. Installed in a compact wall-mount case, the ITC2100-BOS forms the foundation for secure and reliable alerting.

The ITC2100-BOS facilitates both large-area synchronized alerts across the entire network infrastructure and local.

Additional information: www.swissphone.com

Your Swissphone-partner



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General	
Operational temperature range	-25°C to +55°C
Cooling system	Convection (optional with fan in wall-mount case)
Input voltage	90-264VAC/ 47-63Hz
Power consumption	max.150W (optional: max.200W)
Internal bus system	AT96 (96pin-DIN41612)
Compliance with EU regulations	ETS 300113, ETS 300086, EN 60950, EN 50081-2, EN 50082-2, EN 61000-3-2/3

General radio data	
Frequency bands (versions)	Standard: 144-174MHz On request: 66-88MHz / 174-225MHz / 216-266MHz 400-470MHz / 450-530MHz
Frequency stability (carrier)	±1.5ppm
Number of channels (per frequency band)	99
Channel spacing	12.5/20/25kHz
Type of modulation/ demodulation	DFSK max. 2.5kHz (at 12.5kHz channel spacing) DFSK max. 4kHz (at 20kHz channel spacing) DFSK max. 5kHz (at 25kHz channel spacing) FM/PM 300 ... 3000Hz
Switching bandwidth	Whole frequency band
POCSAG data rate	512, 1200 or 2400 baud
Antenna connection	50 ohm coax N-type (1x for transmission, 1x for reception)

Transmitter (Tx)	
Tx output power	1-25 W, configurable in 1W-steps
Intermodulation attenuation	> 40dB
Adjacent channel power	< -70dBc (at 20kHz channel spacing)
Spurious emissions	< 250nW (30MHz to 1GHz)

Receiver (Rx)	
Sensitivity	<2µV (EMK) to decode 90% of digital alerts <-118dBm at 12dB SINAD (0.282µV)
Co-channel rejection	> - 8dB
Adjacent channel selectivity	> 70dB (at 20kHz channel spacing)
Spurious response rejection	> 70dB
Blocking	> 90dBµV (±1MHz to ±10MHz)
Spurious radiations	< 2nW (30MHz to 1GHz)
Intermodulation response rejection	> 70dB

Controller (BSC)	
CPU	500MHz
RAM	512 MB
Flashdisk (solid state memory)	512 MB
Operating system	Linux
Peripheral interfaces	1x COM, 1x RJ45 (10/100 Base T Ethernet), 4x USB (2x external, 2x internal), PS/2-keybord (mini-DIN), VGA (DB15), mouse

Power supply (PS)	
Maximum output voltage/current	13.8V / 8A and 5V / 5A (at 150W) optional: 13.8V / 13A and 5V / 5A (at 200W)
Battery low level protection	yes
Efficiency	80%, 10-15A typical charge
Connection for rechargeable battery	Screw connectors, 12V
Autonomy (optional battery operation)	> 4h with battery 12V 12Ah (at Tx output power of 25W and duty cycle 25%)

Base station only (without wall-mount case)	
Dimensions (WxHxD)	483mm (19" rack) x 134mm (3U) x 315mm
Weight	8.5kg
Base station assembled in wall-mount case	
Dimensions (WxHxD)	600mm x 350mm x 500mm (internal 19", 6U)
Weight	36.5kg (assembled with battery)
Protection class	IP42

Specifications subject to change



- Consisting of:
- Power supply (PS)
 - Controller (BSC)
 - POCSAG decoder card (RC)
 - POCSAG synchro card (SC)
 - Transceiver (TRx)



- Additional modules:
- For multimaster operation: GPS antenna and GPS interface card (S-Com)
 - I/O card



Base station assembled in wall-mount case

Options

- Fan and temperature sensor in wall-mount case for active cooling
- Higher Tx output power on request