



The Unique Analog Voice/POCSAG Simulcast Solution for On-Site and Wide Area Voice Paging Networks

The I.CAST is an on-site or wide area voice alerting and messaging solution, with applications for healthcare, public safety and industry.

I.CAST can run either as an independent system or a high-availability fallback network.

I.CAST allows simulcast analog voice broadcasts. The carrier frequencies of multiple I.CAST stations are synchronized either by GPS or by low-latency LAN (max. 900ms RTT incl. jitter).

The I.CAST can either be controlled by a Swissphone I.SEARCH or directly by a SIP-capable input terminal.

The I.CAST is built of the following functional blocks:

- Power Supply PS150W-B
- Line interface FT634a
- SDR transmitter KA 25W
- Backup battery 12V 12Ah

Options:

- MC112CS Multimode fiber-to-RJ45 converter, supporting modern all-fiber premises
- SIP/RTP Gateway

Key features

-))) SDR-based dual Analog voice/POCSAG mode for voice and paging application
-))) Preemptive priority of Analog voice over POCSAG
-))) Compact 3HU format for 19" mount
-))) SNMP monitoring
-))) Integrated backup battery for 4h autonomy
-))) Scalable for large areas

I.CAST

	Performance features	Technical data
General	Operational temperature range	-25°C to +55°C (with option MC112CS mediaconverter: 0°C to +55°C)
	Cooling system	Convection
	Input voltage	90-264VAC / 47-63Hz
	Power consumption	max. 100W
	Ports	LAN 10BT/ 100TX
	Compliance with EU regulations: Radio Equipment Directive (RED), 2014/53/EU RoHS Recast Directive, 2011/65/EU WEEE Directive, 2012/19/EU	Safety EN 60950-1 EMC ETSI EN 301489-1 ETSI EN 301489-2 Radio ETSI EN 300113 RoHS EN 50581: 2012
	Compliance with FCC (Transmitter module only)	Y9M-KA160 (136-174MHz) Y9M-KA450 (400-470MHz)
General radio data	Frequency bands (versions)	136-174MHz 400-470MHz
	Frequency stability (carrier)	±0.5 ppm (without GPS support)
	Synchronisation sources	GPS/GLONASS, 2-wire, Digital RX, PTP based on IEEE1588
	Channels (per frequency band)	50Hz steps
	Channel spacing	12.5/20/25kHz
	Type of modulation/demodulation	FM/PM 300 ... 3000Hz
	Switching bandwidth	Whole frequency band
	Antenna connection	50Ω coax N-Type
Transmitter (Tx)	Tx output power	25W +/- 1.2dB, adjustable from 1-25W in 1W-steps
	Duty cycle	100%
	Intermodulation attenuation	>40dB
	Adjacent channel power	-75dBc @ 25kHz/-65dBc @ 12.5kHz
	Spurious emissions	<250nW (30MHz to 1GHz)
	ROS protection	Min. 10s in short circuit as well as in open circuit
Power supply (PS)	Auxiliary output voltage/current	13.5V/ 1A max.
	Battery low level protection	yes
	Efficiency	80%
	Connection for rechargeable battery	Screw connectors, 12V
	Autonomy (battery operation)	>4h with in-built 12V 7Ah battery (@ Tx output power of 25W and duty cycle 25%)
Mechanical	Dimensions (W x H x D)	483mm (19" rack) x 134mm (3HU) x 315mm
	Weight	8.5 kg

Specifications subject to change

