

## iCall 205/206 SIP

The iCall 205 SIP-RGY (NWASIN0205) and iCall 206 SIP-RGB (NWASIN0206) wall mountable room terminals of the iCall nursecall system with an integrated SIP audio client for voice communication between staff and resident/patient.



### Functional Description

A maximum of 50 local bus units can be attached to each iCall 205 SIP-RGY or iCall 206 SIP-RGB unit. The local bus units are connected using a four-wired cable connected to the four-pin plug connector at the back of these SIP units.

The data network is connected through the LAN connector, PoE is supported and can power these SIP units and maximum 5 local bus units.

### Features

- Keypad and waterproof speaker for easy disinfection and hygienic purposes
- Magnetic connector for Call Cords or pillow speaker
- Easy installation by use of mounting bracket.
- Available with blue (NWASIB0206) and yellow (NWASIB0205) button
- PoE powered with max of 5 LB buttons supported in a topology of choice
- 24V DC powered with max of 50 LB buttons supported in a topology of choice
- On PoE the Local bus is fuse protected and remotely activatable
- SIP client integrated for 2 way speech
- Internet radio
- SD card used for easy maintenance

- Web site programmable
- Local bus support EU or US buttons
- Privacy mode for resident/patient
- 24/7 supervised, including reassurance & finding LED and buzzer
- Function button (yellow or blue) can have other function
- Blue button => default = Code Blue
- Yellow button => default = Urgency
- Green button => Present, present staff assist, away
- Red button => Call, staff assist
- Wall bracket included
- IP34
- Different types of Call Cord:
  - 1 button Call Cord
  - 3 button Call Cord
  - 5 button Call Cord
  - Pillow Speaker

## Order information


- |              |                   |                    |
|--------------|-------------------|--------------------|
| • NWASIN0205 | iCall 205 SIP-RGY |                    |
| • NWASIN0206 | iCall 206 SIP-RGB |                    |
| • NWCAIN1301 | iCall CCD01/MAG   | 1 button call cord |
| • NWCAIN1303 | iCall CCD03/MAG   | 3 button call cord |
| • NWCAIN1305 | iCall CCD05/MAG   | 5 button call cord |
| • NWCAIN1327 | iCall CCD27/MAG   | Pillow speaker     |

## Contact information

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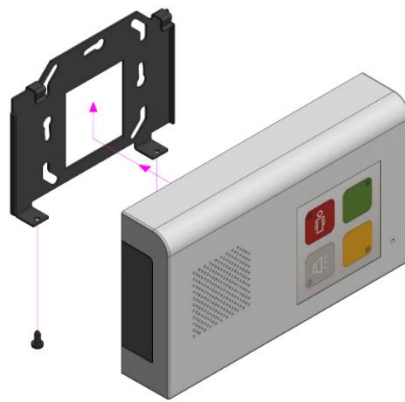
# Technical information

Version		iCall_Speech V1.0					
<b>iCall_Speech</b>							
<b>General Absolute Maximum Ratings !</b>							
	Supply Voltage	V <sub>cc</sub> (LocalBus)	18	24	30	V	
		PoE	37	-	57	V	
	Power injection	supply voltage	37	48	57	V	
		supply current	87	74	81	mA	
	Output Power Local Bus	I <sub>out @24V</sub>	-	100	-	mA	
		P <sub>out @24V</sub>	-	2,4	-	W	
	Operating Temperature (ambient)	T <sub>amb</sub>	0	-	70	°C	
	Maximum reverse voltage	V <sub>r Vcc LB</sub>	-	40	-	V	
V <sub>r PoE/PWR inj</sub>		-	60	-	V		
Leakage current (reverse)	I <sub>r Vcc LB</sub>	-	-	500 *	µA		
<b>Mechanical properties</b>							
<b>Group</b>	<b>Symbol</b>	<b>Parameter</b>		<b>typ</b>	<b>max</b>	<b>unit</b>	
Dimensions	H	height (Y)	Outer dimension housing	89,5		mm	
	W	width (X)		154		mm	
	D	depth (Z)		32		mm	
Weight	M	mass	Total weight	281		g	
				9,91		ounce	
				0,62		pound	
Material	Housing material Reference Doc :	Type of material	ABS V0			-	
		yield stress	29			Mpa	
		yield strain	20			%	
		tensile strength	39,1			MPa	
		softening temperature	94			°C	
		Dielectric strength K20/P50	29			kV/mm	
		Density at 23 ° C	1,17			g/cm <sup>3</sup>	
		Colour	9016			RAL	
		impact strength	22			kJ/m <sup>2</sup>	
	PCB	Type of material	FR-4, Td>=325°C, T260>=60', T288>=5', CTEz<3.7%, Tg>=135°C				-
<b>Electrical properties</b>							
<b>Group</b>	<b>Symbol</b>	<b>Parameter</b>	<b>State</b>	<b>min</b>	<b>typ</b>	<b>max</b>	<b>unit</b>
Power	V <sub>cc</sub> (LocalBus)	Supply voltage	Local Bus PWR	18	24	30	V
	V <sub>cc</sub> (pwr injection)		PoE	37	48	57	V
	I <sub>tot</sub> (LocalBus)	Current consumption	Local Bus PWR	94	76	63	mA
	I <sub>tot</sub> (pwr injection)		PoE	87	74	81	mA
	P <sub>tot</sub> (LocalBus)	Power consumption	Local Bus PWR	1,69	1,82	1,89	W
	P <sub>tot</sub> (pwr injection)		PoE	3,22	3,55	4,62	W
	P <sub>out</sub> (LocalBus)	Output Power Local Bus (PoE PWR)	V <sub>cc</sub> out LB 24V	0	-	100	mA
		P <sub>out</sub> LB 24V	0	-	2,4	W	
PoE	V <sub>poe-pd</sub>	Voltage range (at PD)		37	48	57	V
	V <sub>poe-pse</sub>	Voltage range (at PSE)		44	48	57	V
	R <sub>cable</sub>	Maximum cable resistance		-	20	-	Ω
	I <sub>max</sub>	Maximum current		-	350	-	mA
	P <sub>pd</sub>	Power available at PD		-	12,95	-	W
	P <sub>pse</sub>	Maximum power delivered by PSE		-	15,40	-	W
		Power classification		CLASS 0 ( 0,44 -> 12,95W)			
		Supported standards		802.3af Standards A (PWR over data) and B (PWR over spare)			
	Supported cabling		Cat3/Cat5/Cat5e/Cat6				
Audio	P <sub>o</sub>	Output Power	THD = 1%, f = 1 kHz	-	2,0	-	W
	A <sub>v</sub>	Closed-loop Gain		-	18	-	dB
	THD + N	Total Harmonic Distortion + Noise	PO = 1 W, 8 Ω, f = 1 kHz	-	0,4	-	%
	F <sub>s</sub>	Sample Rate (audio)		-	44,1	-	kHz
	F <sub>sw</sub>	Average Switching Frequency	Class-D stereo amplifier	-	420	-	kHz
<b>General properties</b>							
<b>Group</b>	<b>Parameter</b>	<b>condition</b>	<b>min</b>	<b>typ</b>	<b>max</b>	<b>unit</b>	
Microprocessor	Core			ARM 926EJ-S		-	
	CPU Speed			400		MHz	
	L1 I/D Cache			16K I/D		Byte	
	On-chip SRAM			128		Kbyte	
	ADC			12		bit	
	I2C			yes		-	
	UART			yes		-	
	SSI/I2S			yes		-	
SIP	Supported SIP Methods		INVITE ; ACK ; BYE ; CANCEL ; OPTIONS ; REGISTER ; INFO				
	Supported SIP Codecs		G711-A ; G711-µ				
	Supported DTMF			yes		-	
	Interoperability with softphone			yes		-	
	Echo Cancellation			yes		-	
	Sample Rate			8		kHz	
	SIP Data Format			8		Bit	
	SIP Stack			AMSIP		-	

Thermal properties							
Group	Symbol	Parameter	refers to	min	typ	max	unit
Thermal	T <sub>amb</sub>	Operating temperature	ambient	0	25	70	°C
	-	flamability rating	plastic	32	77	158	°F
-							
Timing specifications (software v1.0.6)							
Group	Symbol	Parameter	LED-status		typ		unit
	T <sub>pwr</sub>	first sign of life time	RED LED ON	-	4		s
	T <sub>sys</sub>	System start up time	4 LEDs ON	-	27		s
	T <sub>rdy</sub>	start up ready time	status LED(s)	-	9		s
	T <sub>boot</sub>	Boot time		Total	40		s
Regulations							
	Parameter		condition		Compliance		
	EMC		Performed, pending report		Yes		
	ESD		Performed, pending report		Yes		
	CE		Performed		Yes		
	FCC		pending		No		

\* @25°C, 20mA @ 100°C

## Mounting instructions



## Dimensions

