### iCall IP-Unit

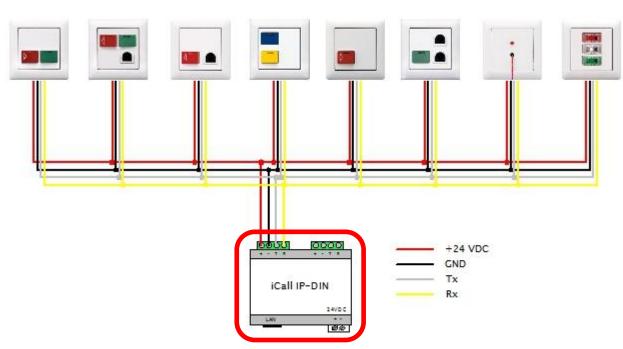
The IP-unit is the master unit for Local Bus, it has 2 local bus connectors on top to connect up to a max of 50 local bus call stations and/or dome lights. An electronic overcurrent protection is implemented. The front has 4 LED indicators displaying the status of the IP-unit. The internal temperature of the IP-unit is constantly monitored and displayed on the website. At the bottom there are 2 connectors, one for the data network (LAN) and the other one to connect the power (+24V DC).

#### **General system description**

The local bus is a four wire bus that can be connected to any cable structure. Bus topology, star topology or a combination of both can be used. The maximum total cable length between the IP-units and the furthest LB-units on the bus is 3280 feet (1000m) or the lowest voltage at the LB-units Tx or Rx wire is 18V DC. The four wire bus is composed of one wire conducting 24V DC, one wire serving as GND, one wire serving as Rx and one wire serving as Tx. The IP-unit can support up to 50 LB-units per bus. If there are more than 50 LB-units an additional IP unit is needed and another bus needs to be created.



## <u>Topology</u>



## **Connections**

Top:

The top has 2 local bus connectors to connect up to 50 local bus call stations. The stations are connected by a four wire cable.



Front:

The front has 4 led indicators:

- First one indicates if the unit is powered ON. (green)
- Second one for a fuse fail indication. (red)
- Third one is showing the data traffic on the TX line. (green)
- Fourth one is showing the data traffic on the RX line. (green)

Behind the front cover is a switch for resetting the electronically fuse.



#### Bottom:

At the bottom are 2 connectors, one for the data network (LAN) and the other for connecting the power (+24V DC).



# **Order information**

NWAAES0160

iCall IP-DIN EMEA



Version	HW: iCall_US V1.3 SW: iCall_US V2.05						Pb
iCall_US pro	oduct range						
	olute Maximum Ratings !			min	typ	max	unit
General Abs	Supply Voltage		Vcc	18	24	30	V
	Supply Current forward		lf	60	70	100	mA
	Operating Temperature (ambiant)		Tamb	0	-	65	°C
	Maximum reverse voltage		Vr	-	40	-	v
	Leackage current (reverse)		lr	-	-	- 15	μA
Mechanical prop			Ir	-	-	15	μΑ
viecnanical prop							
	Parameter	<u>.</u>		min	typ	max	unit
		Dimensions	L x W x H	-	87 x 78 x 30	-	mm
		(two assembled PCB's)	L x W x H	-	3,425" x 3,071" x 1,181"	-	" (inch
		Base material		-	FR-4, Td>=325°C, T260>=60', T288>=5', CTEz=<3.7%, Tg>=135°C	-	-
		Copper layer thickness		-	1,378	-	mils
	PCB	sopper layer thickness		-	0,035	-	mm
		Isolation thickness		-	59,055	-	mils
		isolation thickness		-	1,5	-	mm
		Total thickness		-	61,811	-	mils
				-	1,57	-	mm
		Total weight		-	0,1279	-	lbs
		(two assembled PCB's)		-	0,058	-	kg
		Base material	reference doc (mo	dulbox XT.pdf)	PC/ABS	Selfextinguis	-
			2 modules: EN 60715		90,6 x 71,5 x 62,2	-	mm
Plastic	Plastic Case	Dimensions	acording DIN 43880	L x W x H	3,567" x 2,815" x 2,449"	-	" (inch)
		Color		_	Grey RAL 7035	-	RAL
		000		_	0,2712		lbs
	Total Assembly	Weight		-	0,123	-	kg
	****			-	0,125	-	ĸg
Electrical proper		C+-	•-				
Symbol	Parameter	Sta	te	min	typ	max	unit
Vcc	Operating Voltage	Standby J	AN activo	18 81,0	24 65,2	30 57,4	V dc mA
Icc	Supply Current	Standby, LAN active		81,0			
		Standby, LAN active, RESET active					
				90,4	77,6	71,2	mA
	Power Consumption	Standby, L	AN active	1458	1565	1721	mW
Ptot	Power Consumption	Standby, L Standby, LAN acti	AN active ive, RESET active				
	Power Consumption Current limiting circuit breaker	Standby, L	AN active ive, RESET active	1458	1565	1721	mW
Ptot I limit-load	Current limiting circuit breaker	Standby, L Standby, LAN acti	AN active ive, RESET active	1458 1627	1565 1862	1721 2137	mW mW
Ptot I limit-load	Current limiting circuit breaker	Standby, L Standby, LAN acti	AN active ive, RESET active ith resistive load	1458 1627	1565 1862	1721 2137	mW mW
Ptot I limit-load	Current limiting circuit breaker properties	Standby, L Standby, LAN acti test performed w	AN active ive, RESET active ith resistive load	1458 1627 2,1	1565 1862 2,2	1721 2137 2,3	mW mW A unit
Ptot I limit-load	Current limiting circuit breaker properties Parameter	Standby, L Standby, LAN acti test performed w	AN active ive, RESET active ith resistive load	1458 1627 2,1 min	1565 1862 2,2 typ	1721 2137 2,3 max	mW mW A unit
Ptot I limit-load Microcontroller	Current limiting circuit breaker properties Parameter Ethernet Speed	Standby, L Standby, LAN acti test performed w	AN active ive, RESET active ith resistive load	1458 1627 2,1 <b>min</b> -	1565 1862 2,2 typ 10	1721 2137 2,3 max	mW mW A unit Mbit/s
Ptot I limit-load Microcontroller	Current limiting circuit breaker properties Parameter Ethernet Speed Processor Speed king memory (SDRAM)	Standby, L Standby, LAN acti test performed w	AN active ive, RESET active ith resistive load	1458 1627 2,1 min - -	1565 1862 2,2 typ 10 96	1721 2137 2,3 max -	mW mW A unit Mbit/s MHz Mbyte
Ptot I limit-load Microcontroller	Current limiting circuit breaker properties Parameter Ethernet Speed Processor Speed king memory (SDRAM) Flash memory	Standby, L Standby, LAN acti test performed w	AN active ve, RESET active ith resistive load <b>te</b>	1458 1627 2,1 min - - - -	1565 1862 2,2 typ 10 96 8	1721 2137 2,3 max - - -	mW MW A unit Mbit/s MHz Mbyte
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Ptot I limit-load Microcontroller Wor	Current limiting circuit breaker properties Parameter Ethernet Speed Processor Speed king memory (SDRAM) Flash memory Interfaces	Standby, L Standby, LAN acti test performed w Sta	AN active ve, RESET active ith resistive load te vare	1458 1627 2,1 min - - - -	1565 1862 2,2 typ 10 96 8 8 et ; FTP server ; Web serve serial (RS232) ; 12C	1721 2137 2,3 max - - -	mW mW A unit Mbit/: Mbyte Mbyte
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