




OVERVIEW C4 CONTROLLER

GENERAL												INTERFACES			EXTENSIONS				OS SUPPORT			INFO								
HOUSING	POWER SUPPLY 12-48V=	RASPBERRY® Controller	CPU Quad core 64-bit ARM-Cortex A72@1.5GHz	RAM in GB	SD CARD exchangeable, in GB	HDMI Micro HDMI 4K	AUDIO+COMPOSITE TV 4-rng TRS A/V jack	WIFI+ BLUETOOTH 802.11 b/g/n/ac Wireless LAN Bluetooth 5.0 with BLE	DIP SWITCHES 8 switches	LEDs	REMARK			ETHERNET Gigabit	USB 2.0	RS485		REAL TIME CLOCK accu buffered	ferromagnetic RAM 2kByte	ARM coprocessor supports DIP switch, LEDs and all serial interfaces	ARM coprocessor supports all integrated IOs		LINUX® Standard Raspberry® distribution	CODESYS® preinstalled runtime	SPECIAL OS preinstalled	CATALOG page				
RESI-C4-xx Raspberry PI Compute Module 4© based LINUX controller with integrated IOs – basic versions																														
RESI-C4-A-2GB	XT4	X	CM4	X	2	32	1	NO	NO	1	3	1		1	2	1		X	X	X	X		X				C4-36			
RESI-C4-A-4GB	XT4	X	CM4	X	4	32	1	NO	NO	1	3	1		1	2	1		X	X	X	X		X				C4-36			
RESI-C4-A-8GB	XT4	X	CM4	X	8	32	1	NO	NO	1	3	1		1	2	1		X	X	X	X		X				C4-36			
-4GB	Addon price for 4GB RAM				4																									
-8GB	Addon price for 8GB RAM				8																									
RESI-C4-xx Raspberry PI Compute Module 4© based LINUX controller with additional Ethernet interface																														
-2E	Please add -2E to the order number NOTE: Not all combinations of integrated IOs with this 2nd Ethernet are possible										4																	C4-37		
RESI-C4-xx Raspberry PI Compute Module 4© based LINUX controller with additional LTE IoT M1 modem																														
-M1	Please add -M1 to the order number NOTE: Not all combinations of integrated IOs with this modem are possible										2																			
RESI-C4-xx Raspberry PI Compute Module 4© based LINUX controller with additional LTE modem																														
-LTE	Please add -LTE to the order number NOTE: Not all combinations of integrated IOs with this modem are possible										3																			
RESI-C4-xx Raspberry PI Compute Module 4© based LINUX controller with CODESYS® runtime preinstalled																														
-CM	Please add -CM to the order number Additional CODESYS multi core runtime preinstalled																									X				
GENERAL																														
	HOUSING	MODEM INTEGRATED LTE NB IoT M1 or LTE modem	ETHERNET	RS485											REMARK															
RESI-C4-xx Raspberry PI Compute Module 4© based LINUX controller – Order code samples																														
RESI-C4-A-2GB	XT4	NO	1	1	Controller with xGB RAM and no IOs																									
RESI-C4-A-2GB-M1	XT4	YES	1	1	Controller with xGB RAM, no IOs and with integrated NB IoT modem M1																									
RESI-C4-A-2GB-LTE	XT4	YES	1	1	Controller with xGB RAM, no IOs and with integrated LTE modem																									
RESI-C4-A-2GB-CM	XT4	NO	1	1	Controller with xGB RAM, no IOs and with preinstalled CODESYS multi core runtime license																									
RESI-C4-A-2GB-M1-CM	XT4	YES	1	1	Controller with xGB RAM, no IOs and with integrated NB IoT modem M1 and preinstalled CODESYS multi core runtime license																									
RESI-C4-A-2GB-LTE-CM	XT4	YES	1	1	Controller with xGB RAM, no IOs and with integrated LTE modem and preinstalled CODESYS multi core runtime license																									
RESI-C4-A-xxx-2GB	XT4	NO	1	1	Controller with xGB RAM and xxx integrated IOs																									
RESI-C4-A-xxx-2GB-M1	XT4	YES	1	1	Controller with xGB RAM, xxx integrated IOs and with integrated NB IoT modem M1																									
RESI-C4-A-xxx-2GB-LTE	XT4	YES	1	1	Controller with xGB RAM, xxx integrated IOs and with integrated LTE modem																									
RESI-C4-A-xxx-2GB-CM	XT4	NO	1	1	Controller with xGB RAM, xxx integrated IOs and with preinstalled CODESYS multi core runtime license																									
RESI-C4-A-xxx-2GB-M1-CM	XT4	YES	1	1	Controller with xGB RAM, xxx integrated IOs and with integrated NB IoT modem M1 and preinstalled CODESYS multi core runtime license																									
RESI-C4-A-xxx-2GB-LTE-CM	XT4	YES	1	1	Controller with xGB RAM, xxx integrated IOs and with integrated LTE modem and preinstalled CODESYS multi core runtime license																									

	GENERAL						DIGITAL										ANALOGUE				LED STRIPES		INFO		
	HOUSING	MODEM SUPPORT LTE NB IoT M1 or LTE modem	ETHERNET	RS485	REMARK		DIGITAL INPUTS DC signals ≤48V =	DIGITAL INPUTS AC/DC signals ≤250V ~	DIGITAL OUTPUTS ≤30V ~ 700mA/channel	DIGITAL OUTPUTS ≤30V ~ with current measurement	RELAY OUTPUTS Ag5NO, ≤30V = ≤250V ~ ≤8A	RELAY OUTPUTS Ag5NO, ≤30V = ≤250V ~ ≤6A	BISTABLE RELAY OUTPUTS Ag5NO, ≤30V = ≤250V ~ ≤8A	BISTABLE RELAY OUTPUTS Ag5NO, ≤250V ~ ≤16A	SOLID STATE OUTPUTS ≤230V ~ ≤1A	SOLID STATE OUTPUTS ≤60V ~ ≤3A	SOLID STATE OUTPUTS ≤60V ~ ≤6A		UNIVERSAL IN/OUTPUTS 0-10V = 0/4-20mA RTD sensors 0-1mΩ LOGIC INPUT ≤40V ≤1.8mA	ANALOGUE INPUTS 0-10V =	ANALOGUE OUTPUTS 0-10V =	TEMPERATURE SENSOR INPUTS PT100 PT1000 NI1000 NI120 ...	LED STRIPES PWM DIMMER Constant Voltage ≤60V = ≤15A	LED STRIPES intelligent WS28xx +5V or +12V	CATALOG page
RESI-C4-xx Raspberry PI Compute Module 4© based LINUX controller with integrated DIGITAL INPUTS																									
RESI-C4-A-14RI-2GB	XT8	YES	1	1			14																		C4-38
RESI-C4-A-48RI-2GB	XT12	YES	1	1			48																		C4-39
RESI-C4-A-6DI-2GB	XT4	NO	1	1			6																		C4-40
RESI-C4-A-12DI-2GB	XT4	NO	1	1			12																		C4-41
RESI-C4-A-24DI-2GB	XT4	NO	1	1			24																		C4-42
RESI-C4-A-32DI-2GB	XT4	YES	1	1			32																		C4-43
RESI-C4-A-64DI-2GB	XT12	YES	1	1			64																		C4-44
RESI-C4-A-128DI-2GB	XT12	YES	1	1			128																		C4-45
RESI-C4-A-152DI-2GB	XT12	YES	1	1			152																		C4-46
C4-xxx – DIGITAL OUTPUTS																									
RESI-C4-A-6DO-2GB	XT4	NO	1	1			6																		C4-47
RESI-C4-A-12DO-2GB	XT4	NO	1	1			12																		C4-48
RESI-C4-A-24DO-2GB	XT4	NO	1	1			24																		C4-49
RESI-C4-A-30DO-2GB	XT8	YES	1	1			30																		C4-50
RESI-C4-A-60DO-2GB	XT12	YES	1	1			60																		C4-51
RESI-C4-A-90DO-2GB	XT12	YES	1	1			90																		C4-52
RESI-C4-A-12DOI-2GB	XT4	NO	1	1					12																C4-53
RESI-C4-A-8CO-2GB	XT8	YES	1	1	A					8															C4-54
RESI-C4-A-8COBI-2GB	XT8	YES	1	1	A							8													C4-55
RESI-C4-A-8RO-2GB	XT8	YES	1	1	C							8													C4-56
RESI-C4-A-12RO-2GB	XT8	YES	1	1	B							12													C4-57
RESI-C4-A-16RO-2GB	XT12	YES	1	1	C							16													C4-58
RESI-C4-A-24RO-2GB	XT12	YES	1	1	B							24													C4-59
RESI-C4-A-8PO-2GB	XT12	YES	1	1	B									8											C4-64
RESI-C4-A-10SSR-1A-2GB	XT8	YES	1	1	B									10											C4-60
RESI-C4-A-10SSR-3A-2GB	XT8	YES	1	1	B										10										C4-60
RESI-C4-A-10SSR-6A-2GB	XT8	YES	1	1	B											10									C4-60
RESI-C4-A-20SSR-1A-2GB	XT12	YES	1	1	B									20											C4-61
RESI-C4-A-20SSR-3A-2GB	XT12	YES	1	1	B										20										C4-61
RESI-C4-A-20SSR-6A-2GB	XT12	YES	1	1	B											20									C4-61
C4-xxx – DIGITAL INPUTS & OUTPUTS																									
RESI-C4-A-6DI6DO-2GB	XT4	NO	1	1			6	6																	C4-66
RESI-C4-A-12DI12DO-2GB	XT4	NO	1	1			12	12																	C4-67
RESI-C4-A-16DI15DO-2GB	XT8	YES	1	1			16	15																	C4-68
RESI-C4-A-32DI30DO-2GB	XT12	YES	1	1			32	30																	C4-69
RESI-C4-A-64DI60DO-2GB	XT12	YES	1	1			64	60																	C4-70
RESI-C4-A-76DI72DO-2GB	XT12	YES	1	1			76	72																	C4-71
RESI-C4-A-10RI8RO-2GB	XT8	YES	1	1	C			10				8													C4-72
RESI-C4-A-20RI16RO-2GB	XT12	YES	1	1	C			20				16													C4-73
RESI-C4-A-32DI12RO-2GB	XT12	YES	1	1	C		32					12													C4-74
RESI-C4-A-32DI24RO-2GB	XT12	YES	1	1	C		32					24													C4-75
RESI-C4-A-44DI12DO24RO-2GB	XT12	YES	1	1	C		44	12				24													C4-76
RESI-C4-A-7RI5SSR-1A-2GB	XT8	YES	1	1	B			7							5										C4-62
RESI-C4-A-7RI5SSR-3A-2GB	XT8	YES	1	1	B			7								5									C4-62
RESI-C4-A-7RI5SSR-6A-2GB	XT8	YES	1	1	B			7									5								C4-62
RESI-C4-A-14RI10SSR-1A-2GB	XT12	YES	1	1	B			14						10											C4-63
RESI-C4-A-14RI10SSR-3A-2GB	XT12	YES	1	1	B			14							10										C4-63
RESI-C4-A-14RI10SSR-6A-2GB	XT12	YES	1	1	B			14								10									C4-63
RESI-C4-A-16RI8PO-2GB	XT12	YES	1	1	B			16					8												C4-65
C4-xxx – DIGITAL INPUTS & OUTPUTS – SPECIAL PURPOSE																									
RESI-C4-A-4SB-2GB	XT8	YES	1	1	CD							8													C4-77
RESI-C4-A-8SB-2GB	XT12	YES	1	1	CD							16													C4-78
RESI-C4-A-10RI4SB-2GB	XT8	YES	1	1	CD			10				8													C4-79
RESI-C4-A-20RI8SB-2GB	XT12	YES	1	1	CD			20				16													C4-80
C4-xxx – ANALOGUE INPUTS																									
RESI-C4-A-12AIU-2GB	XT8	YES	1	1														12							C4-85
RESI-C4-A-8RTD-2GB	XT8	YES	1	1	E																8				C4-87
RESI-C4-A-8RTD2-2GB	XT8	YES	1	1	F																	8			C4-88
C4-xxx – ANALOGUE OUTPUTS																									
RESI-C4-A-12AOU-2GB	XT8	YES	1	1																	12				C4-86
C4-xxx – ANALOGUE INPUTS & OUTPUTS																									
RESI-C4-A-4AIOX-2GB	XT4	NO	1	1														4							C4-82
RESI-C4-A-8AIOX-2GB	XT4	NO	1	1														8							C4-83
RESI-C4-A-16AIOX-2GB	XT4	NO	1	1														16							C4-84

	GENERAL						DIGITAL														ANALOGUE					LED STRIPES		INFO
	HOUSING	MODEM SUPPORT LTE NB IoT M1 or LTE modem	ETHERNET	RS485	REMARK		DIGITAL INPUTS DC signals ≤48V=	DIGITAL INPUTS AC/DC signals ≤250V=	DIGITAL OUTPUTS ≤30V= ≤700mA/channel	DIGITAL OUTPUTS ≤30V= ~ with current measurement	RELAY OUTPUTS Ag5NO, ≤30V= ≤250V= ≤8A	RELAY OUTPUTS Ag5NO, ≤30V= ≤250V= ≤6A	BISTABLE RELAY OUTPUTS Ag5NO,≤30V=, ≤250V=,≤8A	BISTABLE RELAY OUTPUTS Ag5NO,≤250V=,≤16A	SOLID STATE OUTPUTS ≤230V= ~ ≤1A	SOLID STATE OUTPUTS ≤60V= ~ ≤3A	SOLID STATE OUTPUTS ≤60V= ~ ≤6A		UNIVERSAL IN/OUTPUTS 0-10V= 0/4-20mA RTD sensors 0-1mΩ LOGIC INPUT 540V ≤1.8mA	ANALOGUE INPUTS 0-10V=	ANALOGUE OUTPUTS 0-10V=	TEMPERATURE SENSOR INPUTS PT100 PT1000 NI1000 NI120 ...		LED STRIPES PWM DIMMER Constant Voltage ≤60V= ≤15A	LED STRIPES intelligent WS28xx +5V or +12V	CATALOG page		
C4-xxx – COMBINED MODULES - DIGITAL & ANALOGUE INPUTS & OUTPUTS																												
RESI-C4-A-6DI6DO4AIOX-2GB	XT4	NO	1	1			6		6										4								C4-90	
RESI-C4-A-6DI6DO8AIOX-2GB	XT4	NO	1	1			6		6										8								C4-91	
RESI-C4-A-16DI15DO4AIOX-2GB	XT8	NO	1	1			16		15										4								C4-92	
RESI-C4-A-16DI15DO8AIOX-2GB	XT8	NO	1	1			16		15										8								C4-93	
RESI-C4-A-16DI15DO16AIOX-2GB	XT8	NO	1	1			16		15										16								C4-94	
RESI-C4-A-32DI30DO4AIOX-2GB	XT12	NO	1	1			32		30										4								C4-95	
RESI-C4-A-32DI30DO8AIOX-2GB	XT12	NO	1	1			32		30										8								C4-96	
RESI-C4-A-32DI30DO16AIOX-2GB	XT12	NO	1	1			32		30										16								C4-97	
RESI-C4-A-64DI60DO4AIOX-2GB	XT12	NO	1	1			64		60										4								C4-98	
RESI-C4-A-64DI60DO8AIOX-2GB	XT12	NO	1	1			64		60										8								C4-99	
RESI-C4-A-64DI60DO16AIOX-2GB	XT12	NO	1	1			64		60										16								C4-100	
RESI-C4-A-32DI12RO4AIOX-2GB	XT12	NO	1	1	B		32					12							4								C4-101	
RESI-C4-A-32DI12RO8AIOX-2GB	XT12	NO	1	1	B		32					12							8								C4-102	
RESI-C4-A-32DI12RO16AIOX-2GB	XT12	NO	1	1	B		32					12							16								C4-103	
RESI-C4-A-32DI24RO4AIOX-2GB	XT12	NO	1	1	B		32						24						4								C4-104	
RESI-C4-A-32DI24RO8AIOX-2GB	XT12	NO	1	1	B		32						24						8								C4-105	
RESI-C4-A-32DI24RO16AIOX-2GB	XT12	NO	1	1	B		32						24						16								C4-106	
RESI-C4-A-38DI6DO24RO8AIOX-2GB	XT12	NO	1	1	B		38		6				24						8								C4-107	
RESI-C4-A-6DI6DO16RI8PO8AIOX-2GB	XT12	NO	1	1	B		6	16	6					8					8								C4-108	
RESI-C4-A-70DI66DO8AIOX-2GB	XT12	NO	1	1	B		70		66										8								C4-109	
C4-xxx – LED STRIPES																												
RESI-C4-A-4LED-2GB	XT8	YES	1	1																					12xPWM		C4-81	
1	All serial interfaces connect via USB to standard UARTs dev/ttyACMx, one special UART dev/ttyACMx is used internal communication to ARM coprocessor																											
2	LTE NB IoT M1 modem interface can be used as normal USB network device in LINUX																											
3	LTE modem interface can be used as normal USB network device in LINUX																											
4	Second Ethernet is connected via USB and appears as native Ethernet interface in LINUX																											
A	Form C relays																											
B	Form A relays																											
C	Form A relays with common supply and root																											
D	Firmware for time control of shades or blinds																											
E	RTD measurement of 2-wire, 3-wire and 4-wire sensors																											
F	RTD measurement of 4-wire sensors																											
XT2	XT2: 35x110x60mm																											
XT4	XT4: 72x110x62mm																											
XT5	XT5: 87.8x110x62mm																											
XT8	XT8: 143x110x62mm																											
XT12	XT12: 213x110x62mm																											
GREEN	This product is normally on stock or within 1-3 weeks available																											
ORANGE	This product is almost deliverable, currently we need 1-2 month to manufacture it																											
RED	Sorry, but we cannot manufacture and deliver this product within the next 3-4 month due to the component crisis																											
	Raspberry Pi is a trademark of the Raspberry Pi Foundation. More information under <a href="http://www.raspberrypi.org">www.raspberrypi.org</a>																											
Valid from 01.01.2024, subject to errors and to technical changes as part of product improvement																												