



OVERVIEW C4 CONTROLLER

	GENERAL											INTERFACES		EXTENSIONS				LORAWAN	LTE	OS	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-ring 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, Serial interfaces+IOs		LORAWAN® Support Integrated LORAWAN Receiver	LTE MODEM Support Integrated LTE MODEM QUECTEL EC25	CHIRPSTACK® + MOSQUITTO® + NodeRED® Preinstalled	LINUX® Standard Raspberry® distribution	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		NO	NO	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		NO	NO	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		NO	NO	X		X	C4-36	
RESI-C4-A-2GW	XT4	X	CM4	X	2	32	1	NO	YES	1	3	1	1	2	1	X	X	X		NO	NO	X		X	C4-36	
RESI-C4-A-4GW	XT4	X	CM4	X	4	32	1	NO	YES	1	3	1	1	2	1	X	X	X		NO	NO	X		X	C4-36	
RESI-C4-A-8GW	XT4	X	CM4	X	8	32	1	NO	YES	1	3	1	1	2	1	X	X	X		NO	NO	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 integrated LORAWAN©																										
RESI-C4-A-LORA-2GB	XT4	X	CM4	X	2	32	1	NO	NO	1	3	1	1	2	1	X	X	X		YES	NO	YES	X			
RESI-C4-A-LORA-2E-2GB	XT4	X	CM4	X	2	32	1	NO	NO	1	3	1	2	2	1	X	X	X		YES	NO	YES	X			
RESI-C4-A-LORA-LTE-2GB	XT4	X	CM4	X	2	32	1	NO	NO	1	3	1	1	2	1	X	X	X		YES	YES	YES	X			
RESI-C4-A-LORA-LTE-2E-2GB	XT4	X	CM4	X	2	32	1	NO	NO	1	3	1	2	2	1	X	X	X		YES	YES	YES	X			
RESI-C4-A-LORA-2GW	XT4	X	CM4	X	2	32	1	NO	YES	1	3	1	1	2	1	X	X	X		YES	NO	YES	X			
RESI-C4-A-LORA-2E-2GW	XT4	X	CM4	X	2	32	1	NO	YES	1	3	1	2	2	1	X	X	X		YES	NO	YES	X			
RESI-C4-A-LORA-LTE-2GW	XT4	X	CM4	X	2	32	1	NO	YES	1	3	1	1	2	1	X	X	X		YES	YES	YES	X			
RESI-C4-A-LORA-LTE-2E-2GW	XT4	X	CM4	X	2	32	1	NO	YES	1	3	1	2	2	1	X	X	X		YES	YES	YES	X			
RESI-C4-xx Raspberry PI Compute Module 4© based LINUX controller with additional WiFi+Bluetooth with antenna in the cover																										
-xGW	Please change the extension -xGB to -xGW so that the controller also offers WiFi+Bluetooth																									
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													
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 2GB RAM and no IOs																					
RESI-C4-A-2E-4GB	XT4	YES	2	1	Controller with 4GB RAM, no IOs and with 2nd Ethernet Interface																					
RESI-C4-A-M1-8GB	XT4	YES	1	1	Controller with 8GB RAM, no IOs and with integrated NB IoT modem M1																					
RESI-C4-A-LTE-2GB	XT4	YES	1	1	Controller with 2GB RAM, no IOs and with integrated LTE modem																					
RESI-C4-A-2GW	XT4	NO	1	1	Controller with 2GB RAM and no IOs, with Wifi+Bluetooth																					
RESI-C4-A-2E-4GW	XT4	YES	2	1	Controller with 4GB RAM, no IOs and with 2nd Ethernet Interface, with Wifi+Bluetooth																					
RESI-C4-A-M1-8GW	XT4	YES	1	1	Controller with 8GB RAM, no IOs and with integrated NB IoT modem M1, with Wifi+Bluetooth																					
RESI-C4-A-LTE-2GW	XT4	YES	1	1	Controller with 2GB RAM, no IOs and with integrated LTE modem, with Wifi+Bluetooth																					
RESI-C4-A-xxx-2GB	XT4	NO	1	1	Controller with 2GB RAM and xxx integrated IOs																					
RESI-C4-A-xxx-2E-4GB	XT4	YES	2	1	Controller with 4GB RAM, xxx integrated IOs and with 2nd Ethernet Interface																					
RESI-C4-A-xxx-M1-8GB	XT4	YES	1	1	Controller with 8GB RAM, xxx integrated IOs and with integrated NB IoT modem M1																					
RESI-C4-A-xxx-LTE-2GB	XT4	YES	1	1	Controller with 2GB RAM, xxx integrated IOs and with integrated LTE modem																					
RESI-C4-A-xxx-2GW	XT4	NO	1	1	Controller with 2GB RAM and xxx integrated IOs, with Wifi+Bluetooth																					
RESI-C4-A-xxx-2E-4GW	XT4	YES	2	1	Controller with 4GB RAM, xxx integrated IOs and with 2nd Ethernet Interface, with Wifi+Bluetooth																					
RESI-C4-A-xxx-M1-8GW	XT4	YES	1	1	Controller with 8GB RAM, xxx integrated IOs and with integrated NB IoT modem M1, with Wifi+Bluetooth																					
RESI-C4-A-xxx-LTE-2GW	XT4	YES	1	1	Controller with 2GB RAM, xxx integrated IOs and with integrated LTE modem, with Wifi+Bluetooth																					

	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 Ag510 ₂ ≤30V= ≤250V~ ≤8A	RELAY OUTPUTS Ag510 ₂ ≤30V= ≤250V~ ≤6A	BISTABLE RELAY OUTPUTS Ag510 ₂ ≤30V= ≤250V~ ≤8A	BISTABLE RELAY OUTPUTS Ag510 ₂ ≤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	XT8	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	XT8	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	XT12	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	NO	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	NO	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

