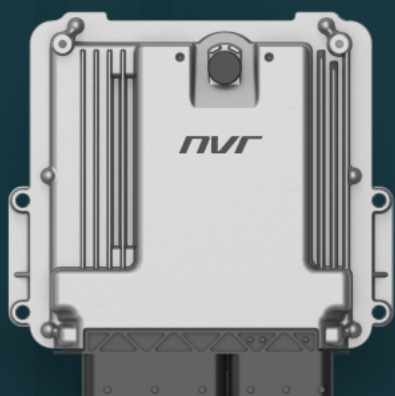


— About NVR

Founded in 2009 in Silicon Valley, NVR is a leading provider of intelligent electronic control systems and IoT solutions. Committed to our mission "NVR is your electrification partner" we strive to deliver cutting-edge solutions that meet the evolving needs of our customers.



PC7300 Controller

The PC7300 series high-performance programmable controllers are specifically designed to meet the complex control requirements of aerial work platforms, construction machinery, and agricultural machinery. Leveraging advanced microprocessor architecture and stringent safety standards, this series delivers precise management and stable response for hydraulic and electrical control systems, adapting to diverse working environments and rigorous industrial applications. The product offers comprehensive communication compatibility and system scalability, supporting multiple mainstream protocols and flexible network configurations to simplify control system integration and device interconnection. Combined with an efficient real-time programming platform and intelligent fault diagnosis tools, the PC7300 significantly enhances development efficiency and system reliability. It is widely applicable in high safety-level scenarios such as electro-hydraulic drives, travel transmission, and multi-domain integrated controllers.



General Industry

— Product Lineup



— Features

- Powered by the Infineon CYT4BF, ARM Cortex Tri-core processor
- Integrated multiple watchdog mechanisms and independent application monitoring
- Supports dual-channel safety emergency stop function
- Centralized safety output cut-off function
- Power output with overcurrent protection capability
- Certified to ISO 13849 functional safety standard
- Excellent electromagnetic compatibility (EMC) design
- Input/output channels support configurable fault detection
- Input/output resource multiplexing design
- Supports I/O software definition and fault diagnosis visualization
- Supports high-precision constant current closed-loop PWM output across full voltage range
- Equipped with 4 independent CAN bus interfaces, supporting CAN FD protocol (customizable)
- Equipped with 1 onboard Ethernet interface for debugging or customized applications
- Supports SAE J1939, CANopen master/slave (optional), and CANopen Safety protocols
- Supports plug-and-play expansion for multiple controllers
- Utilizes CODESYS 3.5 and Simulink real-time programming platforms

— Technical Parameters

Category	Sub-Item	32-10	20-10	16-6
Programming Platform	Codesys	Codesys 3.5 (Standard Configuration)		
	Simulink	✓	(Optional)	
	C-Lib	✓	(Optional)	

Algorithm Library	Codesys Algorithm Library	✔		
	NVR For MEWP	✔	(Optional)	
	NVR Basic Library	✔		
Protocols	SAE J1939	✔	(Optional)	
	CANopen Master	✔	(Optional)	
	CANopen Slave	✔	(Optional)	
	Other Protocols	✔	(Customizable)	
Operating Voltage	Nominal Voltage	12V / 24V		
	Operating Voltage Range	8 – 36 V		
Operating Current	Standby Current	0.2 A @ 12V		
	Maximum Operating Current	40A	30A	20A
Power Output	5V / 150 mA	1 Channel		
	5V / 250 mA	1 Channel		
	10V / 500 mA	1 Channel		
Emergency Stop	Emergency Stop Function	Supported		
Pin	Total Number of Pin	154 Pin (96 + 58)		
Communication	CAN	4 Channels		
	Onboard Ethernet	1 Channel		
Processor	Automotive Grade	Infineon CYT4BF, ARM Cortex Tri-Core		
Main Frequency	Frequency	350 MHz + 350 MHz + 100 MHz		
Storage	Flash	8 MB		
	RAM	1 MB		
	Parameter Storage Area	64 KB		
	Extended Storage (Extended Models)	2 Gb		

Input Channels	Total Number of Input	75 Channels		
	NPN Frequency Inputs (multiplexed with AI_V / DI_L)	10 Channels		
	NPN Frequency Inputs (multiplexed with AI_V / DI_L)	4 Channels		
	0–400 kΩ Resistance Inputs (multiplexed with AI_V / DI)	4 Channels		
	4–20 mA Current Inputs (multiplexed with AI_V / AI_R)	10 Channels		
	0–10 V Voltage Inputs (multiplexed with DI)	44 Channels (one of which can be multiplexed with 0–20mV differential signal)		
	0–120 V Voltage Inputs (multiplexed with DI)	2 Channels		
	0–20 mV Differential Signal Inputs	1 Pair		
Output Channels	Total Number of Output Channels	45 Channels	33 Channels	25 Channels
	PWMI_L Channels (multiplexed with PWM_L / DO_L / AI_V / DI)	10 Channels	10 Channels	6 Channels
	AO_V (multiplexed with DO_L / AI_V / DI)	2 Channels	2 Channels	2 Channels
	PWMI_H Channels 4A (multiplexed with PWM_H / DO_H / AI_V / DI)	4 Channels	4 Channels	4 Channels
	PWMI_H Channels 3A (multiplexed with PWM_H / DO_H / AI_V / DI)	28 Channels	16 Channels	12 Channels
	AO_C Channel (multiplexed with AO_V)	1 Channel	1 Channel	1 Channel
Temperature	Operating Temperature	–40°C - +85°C (–40°F - +185°F)		
	Storage Temperature	–40°C - +105°C (–40°F - +221°F)		
Protection Level	IP Rating	IP67		
Dimensions	Physical Dimensions	204.5 × 203 × 40.5 mm		
Product Certifications	Functional Safety, CE, FCC, UL, CSA	Functional Safety, CE, FCC, UL, CSA		

— Dimensions

