Datasheet Ardbox Analog HF GPRS



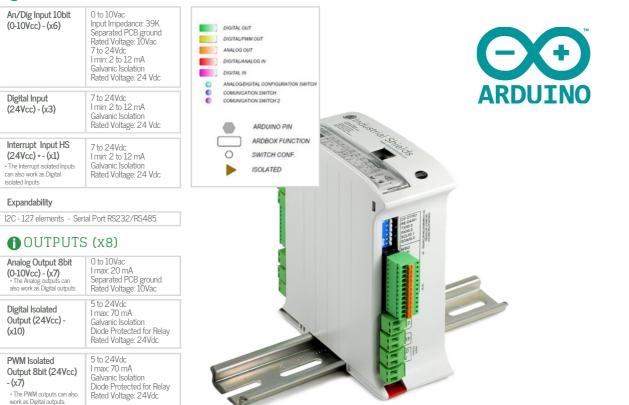
🕅 Industrial Shields

* The PWM outputs can also work as Digital outputs

Technical Features CONECTABLE PLC ARDUINO 24Vcc ARDBOX

IS. 00600100120	0)
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MODEL TYPE	Ardbox Analog HF GPRS							
Input Voltage	12 to 24Vdc (Fuse protection (2.5A) Polarity protection)							
Input rated voltage	24Vdc			_ //	N T	ndusti	aiol Sk	
Rated Power	30 W			-	~			trialshields.com
I max.	15A				Rift Ref And	planx Analog ISAB20ANHF+ kg. knut (0-111/dz)	11111003	
Size	100x45x115			Н	Not Anol Digit	og, input (8-18/dd) al input (2-24/dd) og, Butput (3-19/dd) al Butput (12-24/dd)		Н
Clock Speed	16MHz			- A LHD-	ED.			n Francis in In
Flash Memory	32KB of which 4KB used by bootloader				100			◎ 2010.8/RS-485 DE 2010.8/RS-485 DE/10.8
SRAM	2.5KB			00.5	*응돌 E	CMUTCH	CMUTCH	= 22 10.9/RS-485 RE 0-
EEPROM	1KB			- 0 00.3	6282	SWITCH ZONE	SWITCH ZONE	2 SDA-02/10.0
Communications	GPRS/GSN	8485, RS232, SPI (2x) Rx I, Max232-Max485		-0 002		LONE	LONE	\$ 6초 및 SCL-D3/Q0.6
USB consideration!		loading or debugging. NO vorking in a final application		-6 000	¥-		\bigcirc	s B- RX
General Features		A0.6		3				
Power supply voltage		DC power supply	12 to 24Vdc	- A0.3		5	3	SCL-PIN3
Operating voltage range	е	DC power supply	11.4 to 25.4Vdc	-0 A0.2 -0 A0.1		11	2/1/4	TX-PIN4 RX-PINB
Power consumption		DC power supply	30 W MAX.					GND Q-
External power supply		Power supply voltage	24Vdc	00.5				SV RESET
		Power supply voltage	700Ma	Q0.7		$\overline{}$	GPRS	SCK MOSI
Insulation resistance		20MΩ min.at 500Vdc be terminals and the protect	tween the AC ive earth terminal.	- 00.6		35	GPRS	
Dielectric strength		2.300 VAC at 50/60 Hz leakage current of 10mA Between all the external A protective ground termina	max. AC terminals and the			3 10 11 13	18 19 20	240 → 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Shock resistance		80m/s2 in the X, Y and 2 2 times each.	Z direction	- 0 00.0 - 0 GNI - 0 24V	Con	\Rightarrow	21 22 23	
Ambient temperature (operating)	0° to 60°C						-0 - 10.3
Ambient humidity (open	rating)	10% to 90% (no condensa	ation)			4		
Ambient environment (operating) With no corrosive gas								
Ambient temperature (storage) -20° to 60°C		/	г			ARDUINO PIN ARDUINO PIN R5232 H5"		
Power supply holding time 2ms min.		_ 🗲				ARDUINO PIN R5485 HS*		
Weight 350g max.								
INPUTS (x10)				HS∗: F	lardware Seria	al SS∗: Sof	tware Serial
An/Dig Input 10bit (0-10Vcc) - (x6)	0 to 10Vac Input Imped Separated F Rated Voltag 7 to 24Vdc I min: 2 to 1	PCB ground ge: 10Vac	DIGITAL OUT DIGITALPHM OUT ANALOG OUT DIGITALANALOG IN			C		



DataSheet Rev. 20230418

💓 Industrial Shields

Performance Specifications

Arduino Board	Arduino Leonardo
Control method	Stored program method
I/O control method	Combination of the cyclic scan and immediate refresh processing methods.
Programming language	Arduino IDE. Based on wiring (Wiring is an Open Source electronics platform composed of a programming language. "similar to the C")
Microcontroller	ATmega32U4
	http://arduino.cc/en/Tutorial/HomePage

Install Arduino IDE and the Industrial Shields boards



Unused pins should not be connected. Ignoring the directive may damage the controller.
Before using this product, it is the responsibility of the user to read the product's User Guide and all accompanying documentation.
Industrial Shields PLCs must be powered between 12Vdc and 24Vdc. If a higher voltage is supplied to the equipment can suffer irreversible damage.
Maintenance must be performed by qualified personnel familiarized with the construction, operation, and hazards involved with the control.
Maintenance should be performed with the control out of operation and disconnected from all sources of power.
The Industrial Shields Family PLCs are Open Type Controllers. It is required that you install the M-Duino PLC in a housing, cabinet, or electric control room. Entry to the housing, cabinet, or electric control room should be limited to authorized personnel.
Inside the housting, cabinet or electric control room, the Industrial Shields PLC must be at a minimum distance from the rest of the components of a minimum of 25 cm, it can be severely damaged.
Failure to follow these installation requirements could result in severe personal injury and/or property damage. Always follow these requirements when installing M-Duino family PLCs.
In case of installation or maintenance of the M-Duino please follow the instructions marked in the Installation and Maintenance section on the User Guide.
Do not disconnect equipment when a flammable or combustible atmosphere is present. Disconnection of equipment when a flammable or combustible atmosphere is present may cause a fire or explosion which could result in death, serious injury and/or property damage.

Symbology

Technical Support

	Indicates that the equipment is suitable for direct current only; to identify relevant terminals	You can contact with us using the best channel for you:			
\sim	Indicates that the equipment is suitable for alternating current only; to identify relevant terminals	support@industrialshields.com			
ГЛ	To identify the control by which a pulse is started.	www.industrialshields.com			
	To identify an earth (ground) terminal in cases where neither the symbol 5018 nor 5019 is explicily required.	Visit our Blog, Forum orTicketing system			
\otimes	To identify the switch by means of which the signal lamp(s) is (are) switched on or off.	Use our chat service			
CE	CE marking indicates that a product complies with applicable European Union regulations	Check the user guides			
\triangle	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury	▶ Visit our Channel			
4	To indicate hazards arising from dangerous voltages				