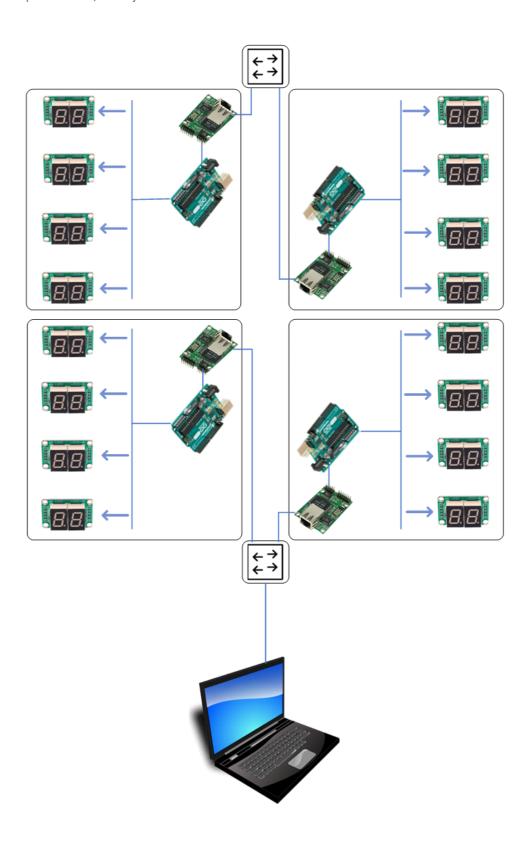
# Concept and elements

poniedziałek, 23 maja 2022 19:08



#### Main elements:

- 1. MOXA NE4110S Ethernet -> COM server
- 2. **Arduino UNO** Mikrocontroler
- 3. **WHMXE-595-2** 7x2 display module
- 4. **PS-05-5** 230-5V transformer
- 5. GAINTA G17081UBK 1U rack case

## MOXA NE4110S

poniedziałek, 23 maja 2022

19.28

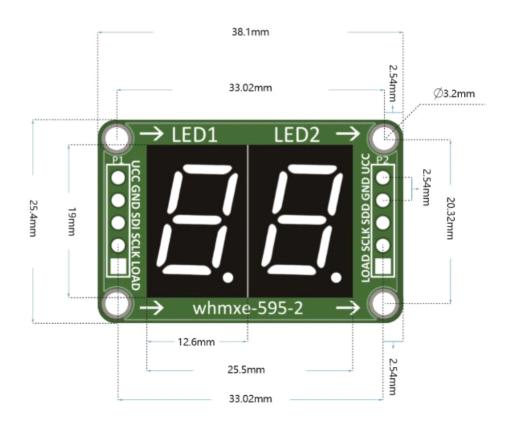


### MOXA NE-4100 Series

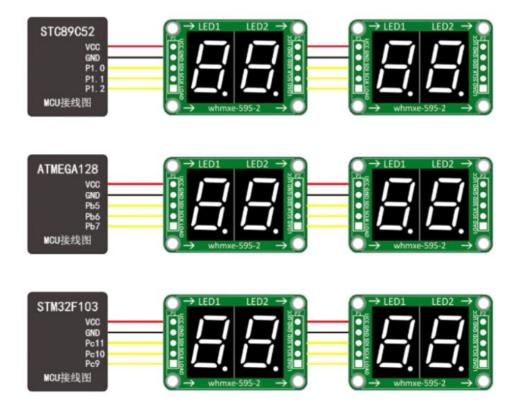
#### Documentation:

- 1. User manual: <a href="https://cdn-cms.azureedge.net/getmedia/655cb5db-0c27-4eb8-96a3-04efb5cc5544/moxa-ne-4100-series-manual-v11.0.pdf">https://cdn-cms.azureedge.net/getmedia/655cb5db-0c27-4eb8-96a3-04efb5cc5544/moxa-ne-4100-series-manual-v11.0.pdf</a>
- 2. SDK programmer guide: <a href="https://cdn-cms.azureedge.net/getmedia/edbc294d-b4b8-4696-9677-4fbf6241075f/moxa-ne-4100-series-programming-guide-manual-v5.0.pdf">https://cdn-cms.azureedge.net/getmedia/edbc294d-b4b8-4696-9677-4fbf6241075f/moxa-ne-4100-series-programming-guide-manual-v5.0.pdf</a>
- 3. Datasheet: <a href="https://cdn-cms.azureedge.net/getmedia/90d20bdc-668b-44dd-97ed-b26c91d37502/moxa-ne-4100-series-datasheet-v1.3.pdf">https://cdn-cms.azureedge.net/getmedia/90d20bdc-668b-44dd-97ed-b26c91d37502/moxa-ne-4100-series-datasheet-v1.3.pdf</a>









#### Similar module is described here:

Arduino and 2-Digit Seven Segment Module - Ardumotive Arduino Greek Playground

## GAINTA G17081UBK

sobota, 23 października 2021

19.35



# **G17081UBK GAINTA**

Z < https://www.tme.eu/pl/details/g17081ubk/obudowy-system-19-cali/gainta/?brutto=1
&currency=PLN&gclid=CjwKCAjw5c6LBhBdEiwAP9ejGzlBlzFp bxv IHaRX9FuBgm9VZ9Nnbee rGkWVBR CTh-IWNQdxoCtLMQAvD BwE>



**SPECIFICATION** 

### 5W Single Output Switching Power Supply

PS-05 series



#### ■ Features :

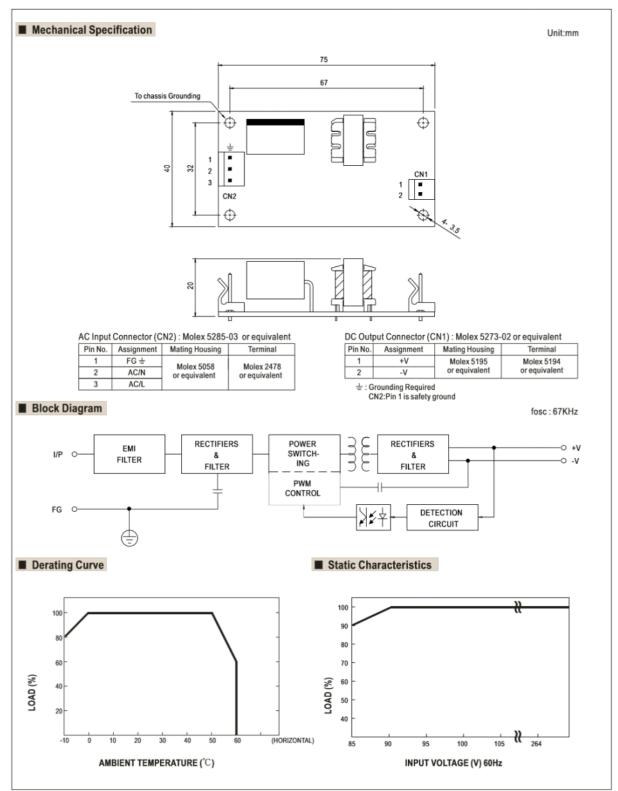
- · Universal AC input / Full range
- Low leakage current < 0.5mA
- \* Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- 100% full load burn-in test
- Fix switching frequency at 67KHz
- Low cost
- High reliability
- · 2 years warranty

EM CB C€

MODEL		PS-05-5	PS-05-12	PS-05-15	PS-05-24	PS-05-48
ОИТРИТ	DC VOLTAGE	5V	12V	15V	24V	48V
	RATED CURRENT	1A	0.45A	0.35A	0.22A	0.11A
	CURRENT RANGE	0~1.2A	0~0.5A	0~0.4A	0~0.25A	0~0.125A
	RATED POWER	5W	5.4W	5.25W	5.28W	5.28W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	120mVp-p	200mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%
	SETUP, RISE TIME	1000ms, 20ms				
	HOLD UP TIME(Typ.)	100ms at full load				
INPUT	VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY(Typ.)	70%	75%	75%	76%	76%
	AC CURRENT (Typ.)	0.15A/115VAC 0.07A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 30A/230VAC				
	LEAKAGE CURRENT	<0.5mA / 240VAC				
PROTECTION	OVERLOAD	Above 105% rated output power				
		Protection type: Hiccup mode, recovery automatically after fault condition is removed				
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.2 ~ 20.2V	27.6 ~ 32.4V	55.2 ~ 64.8V
	OVER TEMPERATURE	Hiccup mode, recovery automatically after fault condition is removed				
ENVIRONMENT	WORKING TEMP.	-10 ~ +60 °C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
SAFETY & EMC (Note 4)	SAFETY STANDARDS	EAC TP TC 004 approved, IEC62368-1 CB approved by TUV				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH				
	EMI CONDUCTION & RADIATION	Compliance to EN55032 (CISPR32) Class B, EAC TP TC 020				
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3				
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A, EAC TP TC 020				
OTHERS	DIMENSION	75*40*20mm (L*W*H)				
	PACKING	0.05Kg; 120pcs/6.25Kg/0.56CUFT				
NOTE	Ripple & noise are measure     Tolerance : includes set up     The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p     The ambient temperature d	secially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  asured at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  It up tolerance, line regulation and load regulation,  considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on  al plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to  sts, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)  are derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500tt),  imer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				

File Name:PS-05-SPEC 2020-10-20





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