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ແລ່ມເລຍ

ປະກິວຕີອຸດສາທາກຣມ 5.0 ກລຈັກປະດີໜູ້ ແລ່ມເລຍ

ນິຍາມແລ່ມເລຍ ກາຮປະກິວຕີອຸດສາທາກຣມຄົງທີ 5

1.0 ກລຈັກໄອນໍ້າ

2.0 ກລຈັກໄຟຟ້າ

3.0 ກລຈັກກຶ່ງຕົວນໍາ

*4.0 ກລຈັກເຄື່ອຂ່າຍ – ໂນດທຸກໂນດເຊື່ອມໂຍງ ແລະ ສົ່ງຂໍອມູນລົງກັນ

*5.0 ກລຈັກປະດີໜູ້ - ເລີຍນແບບແລະ ສ້າງມນຸ່ຫຍ່ງ

ເອກສາວປະກອບນີ້ອ້າງອີງຕາມນິຍາມແລ່ມເລຍ

เครื่องมือหลัก

AIoT

กล้อง, จอ – จักษุประดิษฐ์
ไมโครโฟน, ลำโพง - โสตประดิษฐ์



IoT

WiFi & BLE

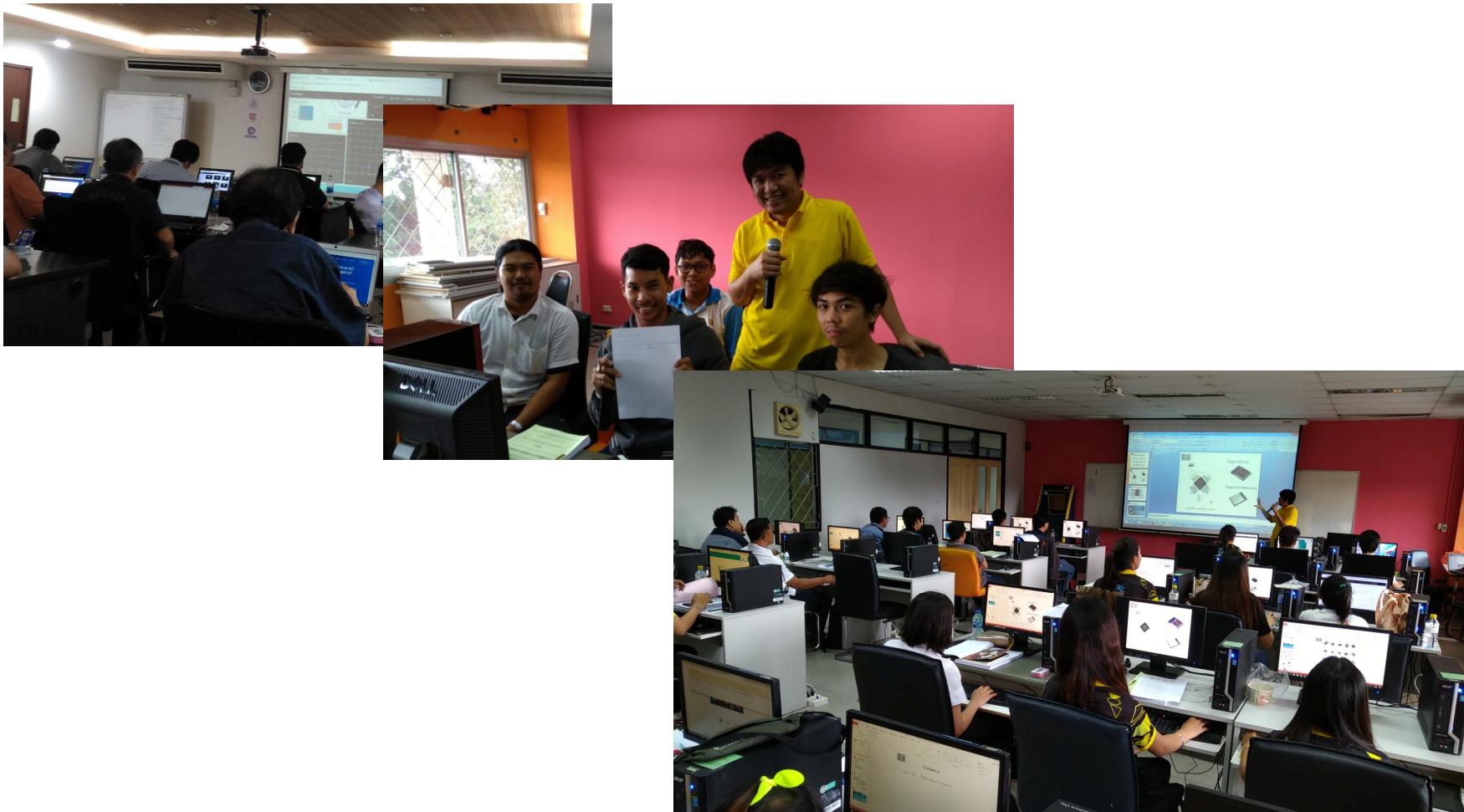


NRF

Low Energy



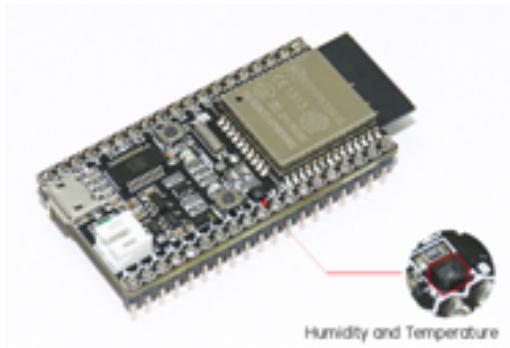
คอร์สอบรม IoT, ออแกนไบส์บอร์ดคอนโทรลเลอร์, AIoT



ชุดทดลองการเรียนรู้ บอร์ดコンโตรลเลอร์ Learning Kit



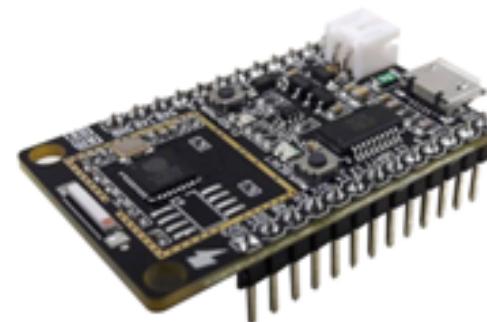
Node32Pico



Node32s Plus



Node32s



NodeWiFi

งานเอกสารประกอบบอร์ด

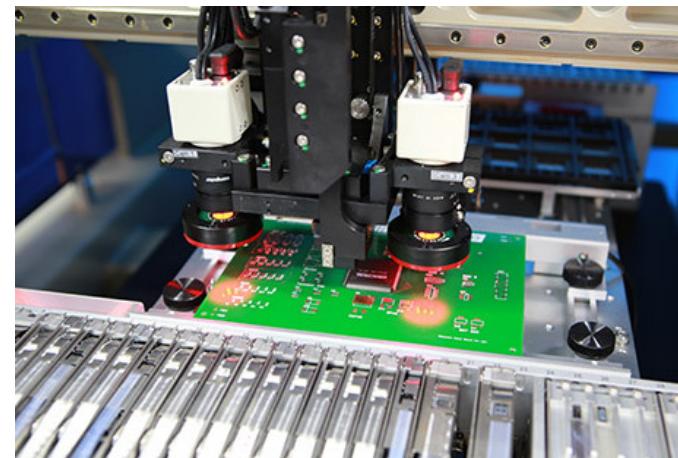
jlpcba, seeed, pcbway, allpcb, oshpark, pcbs.io

Gerber

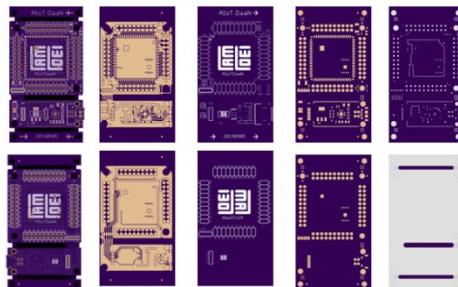
lcsc, mouser, digikey, rs, es

Bom

Centroid XY

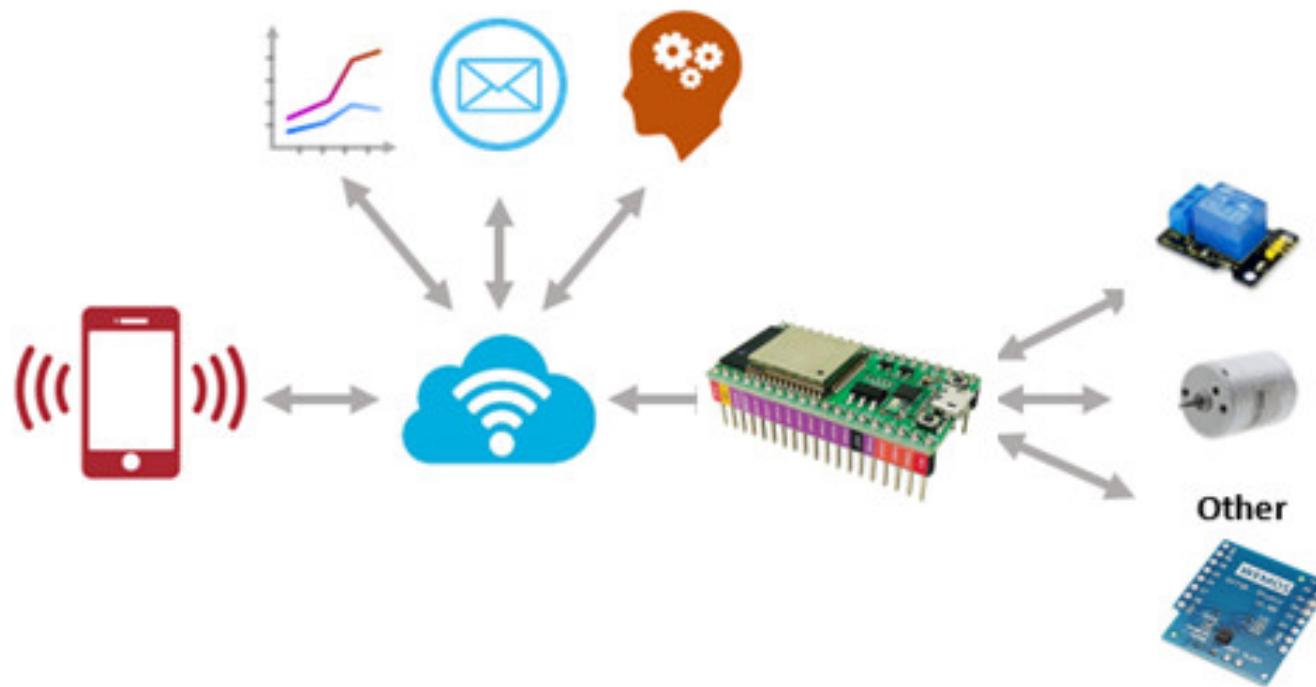


Gravitech, KX, Seeed, PCBWay

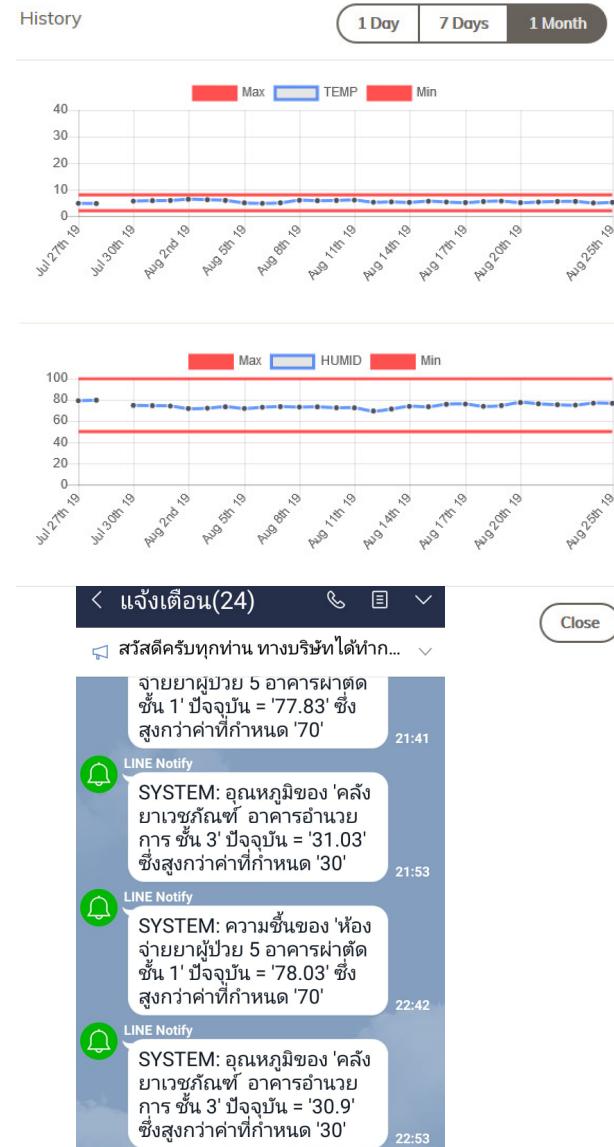


A	B	C	D	E	F	G	H	I	J	K
Item	Quantity	Reference	Part	Footprint	HQ#	HQ# P/N	Vendor	Vendor P/N	Stock P/N	Notes
1	12	C1, C2, C3, C5, C6, C10, C13, C14	CAP CER 0.1UF 50V X7R	0402	Murata	GRM115R71H104KE14D	LCSC	C77020		
4	4	C6, C13, C17	CAP GR 22UF 50V X7R	0805	Murata	GRM115R700J22ME05L	LCSC	C77001		
6	3	C11, C12	CAP GR 47PF 50V COG-NPO	0402	Murata	GRM115C14H70J0410	LCSC	C76970		
7	1	C10	Ceramic Resistor	1206	RightAngle	GR011206R1217024	LCSC	C69511		
8	5	J1, J2, J3, J4	2x10-Pin Male Header	6.31						Not installed
9	4	K1, K2, K3, K4	Tactile Switches SPST	2-SMD	Omron	BSU100P	LCSC	C231209		Not installed
10	1	LED1	LEDS Emitting Diodes 1 LED Blue	0402	Everlight	1LE-215BMC-DS01-AZTR	LCSC	C131205		
11	1	LED2	LEDS Emitting Diodes 1 LED Blue	0402	Everlight	1LE-215BMC-AN12ZL	LCSC	C131205		
12	2	Q1, Q2	NPN Transistors NPN 100mA 45V	SOT-23-3	Transistor	809470_215	LCSC	C57696		
13	1	R1	Resistor 100 ohms 1% 1/16W	1206	Yageo	RC0402FR-J270KL	LCSC	C147691		
14	2	R2, R3	RES SMD 0.2 OHM 1% 1/16W	0402	Yageo	RC0402FR-J270KL	LCSC	C147692		
15	2	R5, R6	RES SMD 0.1 OHM 1% 1/16W	0402	Yageo	RC0402FR-J270KL	LCSC	C138002		
16	2	R6, R7	RES SMD 0.03 OHM 1% 1/16W	0402	Yageo	RC0402FR-J270KL	LCSC	C138002		
17	1	U1	IC U8940A 16pin 1.8V	0402	SEED	U8940A	LCSC	C147694		
18	1	U2	USB Interface IC USB	0402	MOouser	FTDI FT232VQ-A	MOUSER	885FT232VQ-A		
19	1	U3	USB Interface IC USB	0402	MOouser	FTDI FT232R-U	MOUSER	885FT232R-U		
20	1	U4	USB Interface IC USB	0402	MOouser	FTDI FT232R-U	MOUSER	885FT232R-U		
21	1	USB1	USB Connector type A female	2.5MM	Amphenol	UM11179P-3.17NU08	LCSC	C172023		
22	1	USB2	USB Connectors type B 9 Pin	4.8MM	MOLEX	07098-8000	LCSC	C140907		Not installed

ວາງຈະບປະການເໜີນເໜອງ IoT

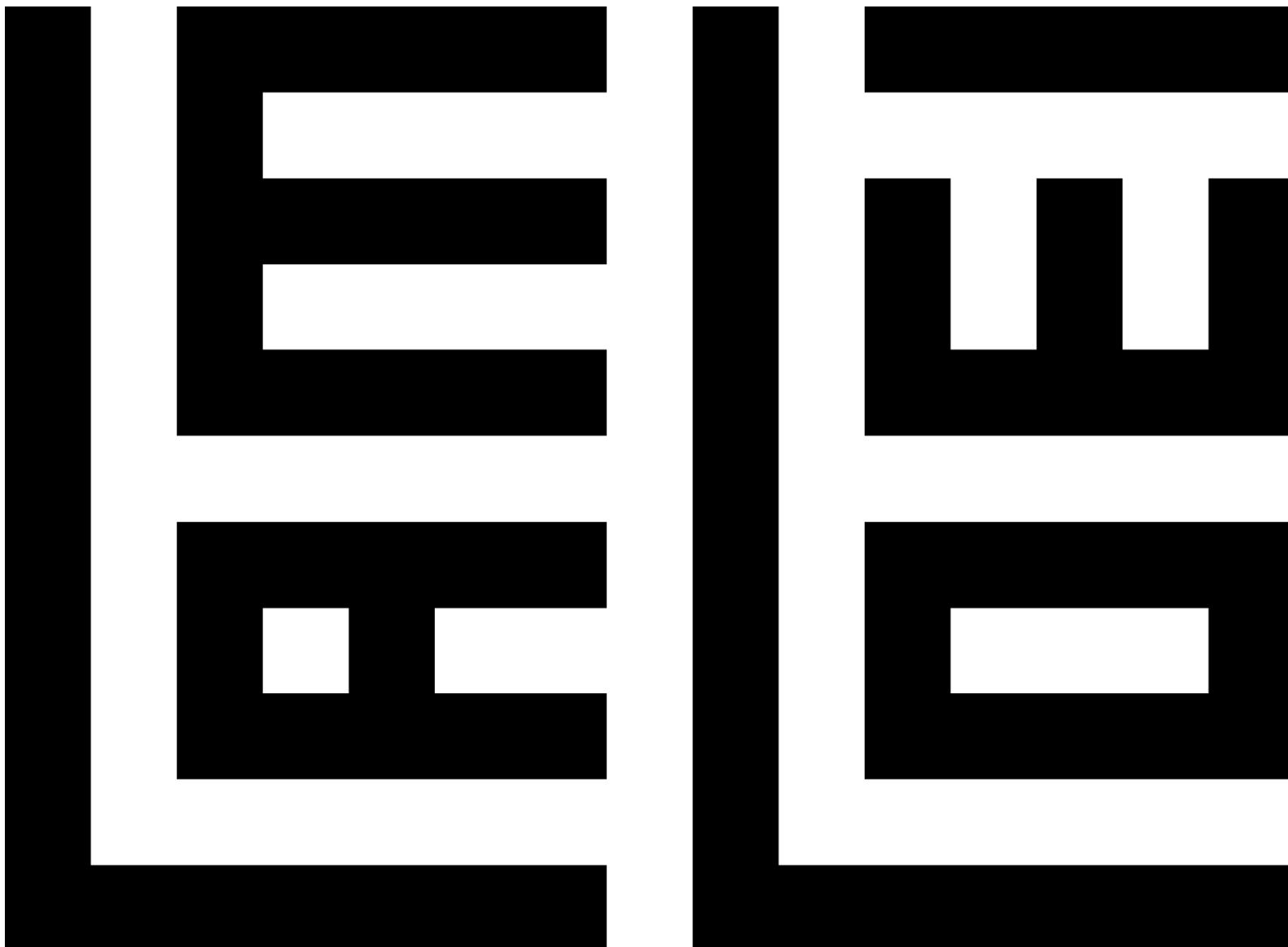


ระบบบันทึกแจ้งเตือนอุณหภูมิความชื้นตู้ยา



ແລ່ມເລຍ 2020

1. ກຳນົດຂໍອຕກລົງ ນິຍາມແລ່ມເລຍ ເກື່ອງກັບ ອຸດສາຫກຮົມ 5.0
2. ວ່າງຂໍອກຳນົດໃບອຸດສາຫກຮົມ 5.0
3. ບັນທຶກຂໍອຕກລົງຄວາມເຂົ້າໃຈ MOU ເພື່ອຮ່ວມມືອກັບສຕາບັນອື່ນ
4. ເປີດໂຄຣສອບຮົມ AIoT, IoT, Design Board Hardware
5. ຮະບບບັນທຶກແຈ້ງເຕືອນອຸນຫກນົມຄວາມຊື່ນຕູ້ຢາ - ໂພຍພລ
6. ຮະບບກາຣຄອງຄລັງຢາແລະເວັກຄົນທີ່ RFID
7. ຮະບບບັນທຶກແຈ້ງເຕືອນຂນສົງ Logistic GPS ກາຍນອກອາຄາຣ
8. ຮະບບເໜັນເຊອຣົວຮະຍະໄກລ 3G4G5G, CAT-M1, NB-IoT, Lorawan, SigFox
9. ຮະບບເໜັນເຊອຣົວຮະຍະໄກລ໌ ໄຣສາຍ WiFi, BLE, Lora ມືສາຍ Ethernet, RS485, CAN
10. ພົມນາຮະບບໄຣເງິນສົດ CashLess



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