

Hybrid Panel-1 Specification



Functions	
Alarm Transmission Path	Built-in Module: RF + RJ45 port (IP Connection) + 4G*
Report Destinations	20 Monitoring Stations or mobile number
Arming Modes	Away, Home 1, Home 2, Home 3
Alarm Type	Burglar, Panic, Fire, Medical, Emergency, Water, Silent
Supervision	Programmable time frame for inactivity alert
GSM Standards	Complies with CE & FCC standards.
Specifications	
CPU, RAM	CPU: i.MX 6ULL MCIMX6Y1DVM05AB NXP RAM: DDR3L SDRAM MT41K256M16TW (4Gbit)
Flash	Flash: NOR FLASH MT25QL256ABA 256Mbit
Number of areas	8
Number of on-board wired zones	16 on-board zones
User PIN codes	240 codes per area
Number of total wired and wireless zones	80 per area, 640 in total

Number of users	60 each for Area1/2/4/5, 240 in total
Zone expansion module	WEZC-8: 8 wired zone expansion module with case WEZ-12/24/36/48-RS485: 12/24/36/48 wired zone expansion module without case
Relay expansion module	WEPC-1: 4 port Relay expansion module
Wired keypad	KPT-35-COMBO (via RS-485 connection)
Total maximum number of zone expansion module, relay expansion module, and wired keypad	128 (with a maximum of 4 for wired keypad) Depend on Wired-Device power consumption
Total wiring length limit for zone expansion module, relay expansion module, and wired keypad	Max. 3000 ft / 914 m @ AWG-22 Max. 4900 ft / 1493 m @ AWG-20 Max. 6200 ft / 1889 m @ AWG-19 Max. 7800 ft / 2377 m @ AWG-18 Depend on Wired-Device power consumption
Wired input	NO/NC Single end-of-line (SEOL) Double end-of-line (DEOL) Triple end-of-line (TEOL) (only for 4.7K, 6.8K, 12K) EOL resistance configuration (in ohms): 1K, 2.2K, 3.74K, 4.7K, 5.6K, 6.8K, 8.2K, 10K (32 pieces of 5.6K resistors are included in shipment)
Ethernet interface	RJ-45 connection
Electrical	
Power supply	(1) 16 ~ 18VAC, 40VA, 50/60Hz (2) 100 ~ 230VAC, 50/60Hz
Total power output provided by Hybrid Panel for hardwired devices, bells, PGM, KPT-35-COMBO and expansion modules	13.5V (Typical) / 2A (without SLA battery) 13.5V (Typical) / 1.5A (with SLA battery)

Backup battery options	12V/7Ah or 12V/4Ah Sealed Lead Acid Battery (SLA)
Battery duration**	(1) 12V/7Ah SLA: 36 hours (2) 12V/4Ah SLA: 21 hours Depend on wired device's power consumption
Battery Recharge Time	72 hours (typical)
Wireless	
LTE Frequency	EU: B1 (2100 MHz) / B3 (1800 MHz) / B5 (850 MHz) / B7 (2600 MHz) / B8 (900 MHz) / B20 (800 MHz) US: B2 (1900 MHz) / B4 (1700MHz) / B12 (700MHz)
3G Frequency	EU: B1 (2100 MHz) / B5 (850 MHz) / B8 (900 MHz) US: B2 (1900 MHz) / B4 (1700MHz) / B5 (850 MHz)
RF Frequency	F1 868 MHz/ F1 433 MHz
RF encryption	Private Encryption Method
RF protocol	Climax
ZigBee protocol	ZigBee Pro HA 1.2, 2.4GHz
Z-Wave protocol	Z-Wave 500 series module 868.40MHz (EU) / 908.40MHz (US)
Wi-Fi	802.11 b/g/n, 2.4GHz
DECT Module	Reserved
Physical Properties	
Operating temperature	-10°C to 45°C (14°F to 113°F)
Operating humidity	85% relative humidity @23°C (non-condensing)
Dimensions	268 mm x 320 mm x 80 mm
Weight	1440g (without battery)

**Note: 4G with fallback compatibility to 3G and 2G.*

*** Note: The actual battery life may vary with product settings, usage patterns and operating environment.*