



4G Power Saving PAC with Solar charger (Asia Only, Except China)

Features

- Embedded MiniOS7, anti-virus
- Support GSM, WCDMA,4G LTE
- Solar charger for Lead acid battery
- 10/100 Base-TX compatible Ethernet controller
- COM port: COM1 (5-wire RS232), COM2 (RS-485)
- Built-in RTC, NVRAM, EEPROM
- 128*64 dots LCM display (option)
- GPS: 32 channels with All-In-View tracking (option)
- High reliability in harsh environments
- DIN-Rail mountable

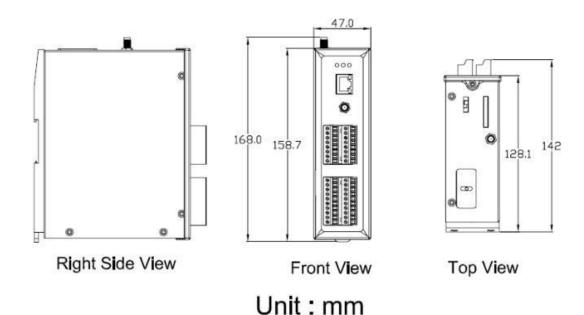
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RoHS

Introduction

The G-4514 series are M2M (Machine to Machine) Power Saving PAC with a cellular transceiver and a solar charger. It can be used in hydrologic monitoring or mudslide monitoring system. With optional GPS model, the G-4514 can also be a GPS tracking system for vehicle management or maritime system. The features of G-4514-4G series: Solar charger, 4G module, Ethernet interface, optional GPS module, 3 digital inputs, 3 digital outputs, 8 analog inputs, 1 relay output.

Dimensions





I/O

Analog Input		
Channels	8	
Туре	Current	
Range	0 ~ 20 mA	
Resolution	12-bit	
Accuracy	+/- 2 LSB (+/- 0.0097 mA)	
Sampling Rate	1 KHz max. (Read one channel).	
Isolation	2500Vrms 3000Dc to DC	
Digital Input		
Channels	3	
Туре	Dry Contact	
ON Voltage Level	Close to GND	
OFF Voltage Level	Open	
Isolation	Non-isolated	
Digital Output		
Channels	3	
Туре	Open Collector	
Sink/Source (NPN/PNP)	Sink (NPN)	
Load Voltage	+30 VDC max.	
Load Current	100 mA max.	
Isolation	Non-isolated	
Relay Output		
Channels	1	
	Form C:	
Contact Rating	2A @ 30 VDC	
	0.25 A @ 250 VAC	
Mechanical Endurance	typ. 10^8 operations	

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Specification

CPU Module				
	80 MHz internal microprocessor			
CPU				
EEPROM	16 KB, retention > 40 years.			
	1,000,000 erase/write cycles			
Flash	512 MB			
NVRAM	31 bytes, battery backup, data			
	valid up to 10 years			
SRAM	512KB			
	Provide seconds, minutes,			
Real Time Clock	hours, day of week/month,			
Watchdog Timor	month, and year			
Watchdog Timer	Yes			
Lead Acid Battery Charger				
Battery Voltage	12V Lead-Acid Battery			
	Voltage of Power Input must be			
Charging Voltage	over +16V			
	Low Voltage disconnect =			
Low Voltage Protect	11.1V / Low Voltage reconnect			
	= 12.6V			
LED Indicators				
	1 x System			
Status	1 x 3G			
	1 x Charging / Fault			
2G System				
	GPRS			
Data Transmission	Downlink transfer: Max. 85.6			
Rate	kbps; Uplink transfer: Max.			
	42.8kbps			
Frequency Band	850/900/1800/1900 MHz			
Coding Schemes	CS 1, CS 2, CS 3, CS 4			
GPRS multi-slot	GPRS class 10/8; GPRS station class B			
Power Class	Class 4 (2 W @ 850/900 MHz)			
	Class 1 (1 W @ 1800/1900MHz)			
CMC Farmat	Sending: UCS2/7bits			
SMS Format	Receiving: UCS2/7bits			
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2C System				
3G System				
Data Transmission Rate	DC-HSPA+ Downlink transfer: Max. 42 Mbps; Uplink transfer: Max. 5.76Mbps TD-SCDMA Download: Max. 4.2 Mbps; Upload: Max 2.2Mbps CDMA2000 EVDO Download: Max. 14.7 Mbps; Upload: Max 5.4Mbps			
Frequency Band	WCDMA 850/900/1900/2100 MHz			
Power Class	Class 3 (24dBm+1/-3dB) for WCDMA			
SMS Mode	MT, MO, CB, Text and PDU mode			
4G System				
Data Transmission Rate	LTE Downlink transfer: Max. 100 Mbps; Uplink transfer: Max. 50 Mbps			
Frequency Band	FDD LTE: B1/B2/B3/B4/B5/B7/B8/B28 TDD LTE: B40			
Ethernet				
Ports	1 x RJ-45, 10/100Base-T(X)			
COM Ports				
Ports	1 x RS-232			
	1 x RS-485			
Power				
Consumption	Deep Sleep: < 10 mA @ 12VDC. Deep Sleep (With LCD): < 11 mA @ 12VDC; Sleep: < 15 mA@12VDC. Idle: 90 mA @ 24 VDC; Data Link: 150 ~ 400 mA (peak) @ 24 VDC			
Mechanical				
Casing	Metal			
Dimensions (mm)	47 x 142 x 168 (W x L x H)			
Installation	DIN-Rall and Wall mount			
Environment				
Operating Temperature	-20 ~ +70 °C			
Storage Temperature	-40 ~ +80 °C			
Humidity	5~90% RH, Non-condensing			



Application



• Car Monitor/Tracking System



Ordering Information

G-45	14-4GAU	4G Power Saving PAC with Solar charger (RoHS) (Asia Only, Except China)
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