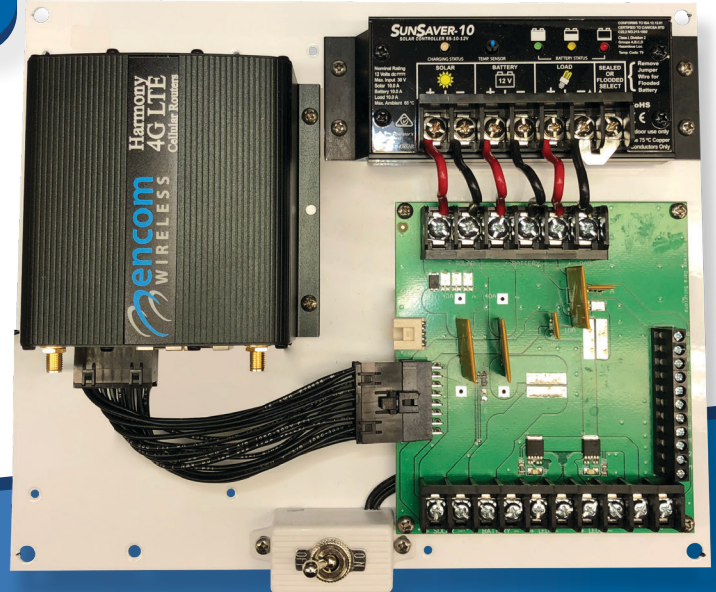


HARMONY

Cellular Gateway Panel

ATMOS CLOUD based, Easy to Deploy, Future Proof Solution.

This pre-mounted compact panel contains a solar controller and 12V output driver board which provides dedicated power for auxiliary devices. Add an optional integrated 900MHz radio to the Gateway for increased flexibility. An AC panel version to cover all your site specific needs.



Key Features

- Worldwide LTE Cat-4 modem with 3G fallback
- Pre-approved multi-carrier 4G LTE Connectivity
- Extra LAN port for other equipment sharing the same cellular link
- Extra WAN port for auto cellular connection backup
- Vertical or Horizontal tilt detection
- Connection for cabinet door and pedestrian crosswalk switch inputs
- Optional pre-activated SIM installed for easy installation and provisioning
- Compatible with other Harmony products
- Automatic firmware upgrade via the cellular connection
- Email & SMS notifications for configured monitoring functions
- Event logging, alarm triggering, status reports and much more!



School Zone
Flashing Beacons



Flood Detection &
Warning System



**CLOUD Monitoring
& Control By ATMOS**



GENERAL SPECIFICATIONS

Input Power:	6–30 VDC or 100–240 VAC
Power Consumption:	300 mA @ 12 VDC
LED indicators:	PWR, RF Link, Schedule Status, Input 1 & 2, Output 1 & 2, LAN-ACT, LAN Link all sensor inputs
Operating Temperature:	-40°F to 176°F (-40°C to 80°C), up to 95% humidity
Panel Size:	10.75" x 8.875"

CELLULAR SPECIFICATIONS

	LTE	3G / 2G
Supported Frequency Bands:	(FDD) bands: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B26/B28 (TDD) bands: 38/39/40/41	UMTS/HSDPA/HSUPA/HSPA+:800-850/900/AWS 1700/2100 MHz (B1, B2, B4, B5, B6, B8/ B19
Max. connectivity speeds:	Category 4 (150 Mbps Downlink, 50Mbps Uplink)	DC-HSPA+: 42 Mbps Downlink, 5.76 Mbps Uplink
Rx Diversity	Simultaneous Equalization and Rx Diversity on all bands	
Antenna Configuration:	1 x SMA: Cellular Main 1 x SMA: Cellular MIMO/DIV/GPS	
SIM:	Nano SIM (4FF)	
GPS:	Passive/active GPS antenna support	

900 MHz RADIO SPECIFICATIONS (not available in NR models)

Technology:	Frequency-hopping spread spectrum (FHSS) with repeater capability
Frequency Range:	902–928 MHz, ISM Band
Output Power:	1 mW, 10 mW, 100 mW, 1000 mW
Receiver Sensitivity:	-110 dBm @ 10-6 BER
Error Checking:	32-bit CRC
Encryption:	32-bit
Antenna Port:	RP TNC-F
Certification:	FCC, Industry Canada

CONNECTIVITY

Ethernet Port (10/100Base-T)	2 (one for LAN + one for WAN connection)
900 MHz Radio	Yes (not available in NR model)
Configuration, Monitoring & Control	ATMOS, ControlPAK, SNMP, WEBUI
Protocol	HTTP, SNMP V1, V2 & V3, SMTP, DHCP

ORDERING OPTIONS

- **HAR-700-DC-KIT:** Harmony LTE Gateway Advanced I/O, DC, Panel KIT
- **HAR-700-AC-KIT:** Harmony LTE Gateway Advanced I/O, AC, Panel KIT
- **HAR-700-DC-NR-KIT:** Harmony LTE Gateway Advanced I/O (no radio), DC, Panel KIT
- **HAR-700-AC-NR-KIT:** Harmony LTE Gateway Advanced I/O (no radio), AC, Panel KIT

INDUSTRIAL I/O

Local Override Switch:	Yes
Optical Isolated Water Sensor Input:	2 maximum
Tilt Sensor:	Vertical x 1, Horizontal x 1
Extra Digital Inputs:	3
Digital Input Range:	0 to 30V (Ground activated)
Lamp Flasher Driver:	2
Analog Input:	2, 0 to 50VDC, 12 Bit Resolution
Analog Output:	2, 0 to 5VDC, 12 Bit Resolution

REMOTE SITE MONITORING FUNCTIONS

Input voltage and current	monitoring + logging
Beacon lamp On/Off status	monitoring + logging
Beacon lamp On current	monitoring + logging
Solar panel voltage	monitoring + logging
Battery current	charge/discharge monitoring+logging
Temperature	monitoring + logging
Receive signal strength	monitoring + logging
GPS location	monitoring
Beacon lamp fail	detect + alarm
Low battery voltage	detect + alarm
Solar panel disconnect	detect + alarm
Battery disconnect	detect + alarm
A/C power loss	detect + alarm
Integrated battery backup	Yes
Number of calendars	16
Calendar periods	365 days
Event/calendar	16
Manual override	Yes

*ENCOM Broadband radios require professional installation. Specifications subject to change without notice. Visit www.encomwireless.com for updates.

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