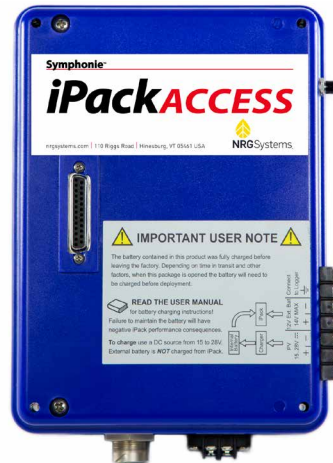# SYMPHONIE® iPACKS
COMMUNICATION + POWER MODULES

Symphonie® iPacks combine reliable communication and autonomous power supply capabilities into one integrated package.

- Reliable data transfer from any location, with technology options including 2G, 3G, or 4G cellular and Iridium or Inmarsat BGAN M2M satellite options.

- Integrated autonomous power supply saves installation time and powers entire system.

- Receive data according to your schedule or application with call intervals ranging from 10 minutes to 14 days.

- Ready for WindLinx™ wireless service and web-based management portal.

BGAN modem + satellite antenna

NRGSystems®

Symphonie® iPACKS

Applications:

- Wind and solar resource assessment and forecasting

Main Functions:

- Provides automated data delivery via cellular or satellite network

- Powers the data logger / communications system via integrated autonomous power supply with rechargeable battery and PV charge controller

- Enables real-time, two-way communication with data logger via MetLink, allowing automated data delivery as well as firmware and/or configuration updates to data logger and iPack**

- Worldwide operation with various modem options (see "iPack Options" table below)

- Provides data logger time synchronization via GPS and/or internet time server**

- Cellular network information as well as band and operator management via SymphoniePRO Desktop Application**

- GPS position viewer - automatically updates latitude, longitude, and elevation settings in the data logger

Data Collection Software:

- SymphoniePRO Desktop Application
- Symphonie Data Retriever (SDR)

Data Delivery:

- Data delivery via SMTP email and/or MetLink connections, including: copy of *.RWD or *.RLD files, iPack status, and event logs**

Configuration:

- Configuration via desktop software on Windows PC**

- Remote configuration changes via MetLink (SymphoniePRO) or uploaded via email (POP3, for SymphoniePLUS3 or older)**

Configurable Parameters:

- Internet Service Provider settings**

- Other settings (schedule, SMTP, etc.) stored in data logger allowing minimal disruption to settings in the event of iPack swap**

Internal Batteries Included:

- 12 V Sealed Lead-Acid (SLA) battery with 2200 mA-hr rating (Iridium and iPackACCESS include two)

External Power Input:

- Charging circuit (solar PV panel) input (open circuit voltage 15 to 28 V)

- External battery input (12-14 V)

External Power Output:

- 12 V DC nominal output from internal SLA batteries(~4400 mA-hrs)***

System Requirements Windows PC with desktop software for applicable data logger model:

- SymphoniePRO Desktop Application for SymphoniePRO Data Logger

- Symphonie Data Retriever (SDR) for SymphoniePLUS3 and older Symphonie series data loggers

Related Hardware

- iPack Programming Kit (item 3368)

- Universal iPack charger (item 3615, included in 3368)

Separate air-time agreement required
**Function enhanced and/or exclusively available with SymphoniePRO
***Only available on iPackACCESS for BGAN M2M Satellite Terminal

NRG Systems iPack Options:

iPack Model	Item Number	Wireless Technology
Symphonie iPackGPS | GSM/GPRS	4723	2G GSM (GPRS)
Symphonie iPackGPS | LTE-G AT&T	16674	2G (GPRS), 3G and 4G GSM LTE; (AT&T Only)
Symphonie iPackGPS | LTE-G VZW	16675	2G (GPRS), 3G and 4G GSM LTE; (Verizon Only)
Symphonie iPackGPS | LTE-G WindLinx	16676	2G (GPRS), 3G and 4G GSM LTE; (WindLinx Only)
Symphonie iPackACCESS | LTE-G AT&T	16691	2G (GPRS), 3G and 4G GSM LTE; (AT&T Only)
Symphonie iPackACCESS | LTE-G VZW	16692	2G (GPRS), 3G and 4G GSM LTE; (AT&T Only)
Symphonie iPackACCESS | LTE-G WindLinx	16693	2G (GPRS), 3G and 4G GSM LTE; (AT&T Only)
Symphonie iPackGPS | LTE-ATT	14883	4G GSM (LTE-FDD; AT&T only)
Symphonie iPackGPS | LTE-VZW	14864	4G GSM (LTE-FDD; Verizon only)
Symphonie iPackACCESS | LTE-G	9429	2G (GPRS), 3G and 4G GSM LTE
Symphonie iPackACCESS | 4G LTE-TDD	9406	4G GSM (LTE-TDD only)
Symphonie iPackACCESS | BGAN M2M	10451, 10549	Inmarsat Satellite Network
Symphonie iPackGPS | Iridium Satellite	4721	Iridium Satellite Network

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ISO 14001:2015 Self-Certified

NRG Systems®