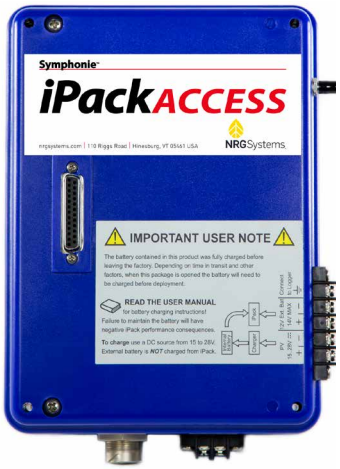
# SYMPHONIE® iPACKS

## 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 | 3G GSM | 8979 | 2G + 3G GSM (GPRS, EDGE, HSPA (+), UMTS) |
| Symphonie iPackGPS | LTE-VZW | 9390 | 4G GSM (LTE-FDD; Verizon only) |
| Symphonie iPackACCESS | BGAN M2M Satellite | 10451, 10549 | Inmarsat Satellite Network |
| Symphonie iPackGPS | Iridium Satellite | 4721 | Iridium Satellite Network |

**For more information:**
NRG Sales
+1 802.482.2255
sales@nrgsystems.com
nrgsystems.com
ISO 9001: 2015 Certified
ISO 14001:2015 Self-Certified

NRG Systems®

02_2020_V6