RocketLink-G™ Model 3088 Series
G.SHDSL NTU with Fixed Serial Interfaces

Quick Start Guide

CE **Important** —This is a Class A device and is intended for use in a light industrial environment. It is not intended nor approved for use in an industrial or residential environment.

WARNING

- **This device contains no user serviceable parts. The equipment shall be returned to Patton Electronics for repairs, or repaired by qualified service personnel.**
- **AC Powered Units: The external power adaptor shall be a listed Limited Power Source. Ensure that the power cable used meets all applicable standards for the country in which it is to be installed, and that it is connected to a wall outlet which has earth ground. The mains outlet that is utilized to power the device shall be within 10 feet (3 meters) of the device, shall be easily accessible, and protected by a circuit breaker.**
- **DC Powered Units: The interconnecting cables shall be rated for proper voltage, current, anticipated temperature, flammability, and mechanical serviceability.**
- **Hazardous network voltages are present in WAN ports, regardless of whether power to the unit is ON or OFF. To avoid electric shock, use caution when near WAN ports. When detaching the cables, detach the end away from the device first.**
- **Do not work on the system or connect or disconnect cables during periods of lightning activity.**

1.0 Select configuration method

Before powering up, you must select one of the following methods for configuring your RocketLink-G:

- **Plug 'n' Play**—The RocketLink-G comes factory-configured for Plug 'n' Play configuration when connected to a service-provider network.

- **DIP Switch**—For deploying the RocketLink-G in back-to-back applications. To use DIP-switch configuration you must first set the DIP switches to a position other than all OFF or all ON before powering-up the RocketLink-G. To configure your NTU using the DIP switches, refer to the section entitled "Hardware (DIP-switch) configuration" in the *RocketLink-G Model 3088 Series Getting Started Guide.*

- **Software Configuration**—Allows you to modify configurable parameters by connecting a PC to the console port and issuing software commands. To use software configuration you must set all the DIP switches to the ON position before powering-up the RocketLink-G. To configure your NTU via the console port, refer to section "Software (CLI) configuration" in the *RocketLink-G Model 3088 Series Getting Started Guide.*

2.0   Power up the NTU

Your G.SHDSL NTU comes with one of the following power supply options:

- External AC adaptor with detachable power cord

- External DC power supply with terminal block connector (model 48V-PSM3)

2.1 Models with external AC adaptor

1. Connect female plug of the AC power cord to the AC adaptor provided.

2. Connect the barrel-type connector of the AC adaptor to the *Power* connector on the RocketLink-G.

3. Insert the male plug of the AC power cord into an AC power outlet (100–240 VAC).

2.2 Models with external DC power supply

The 36-60 VDC DC to DC adapter is supplied with the DC version of the Model 3088. The black and red leads plug into a DC source (nominal 48VDC) and the barrel power connector plugs into the barrel power supply jack on the 3088. (See **figure 1**).
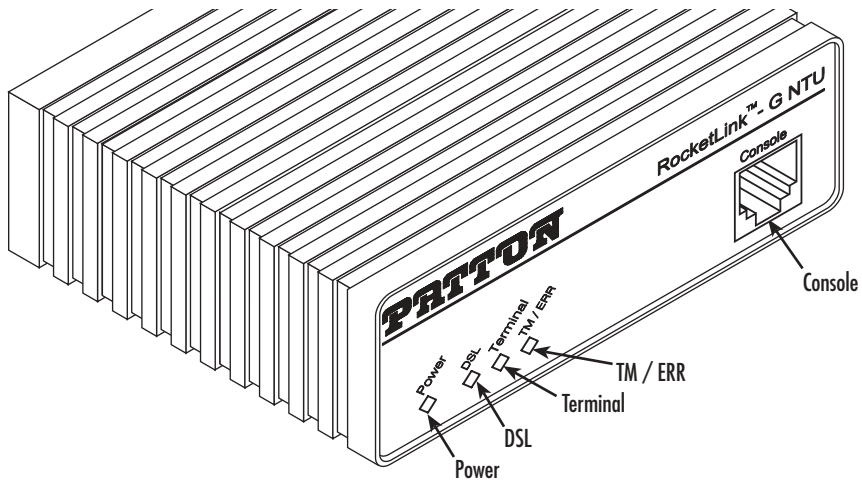
Figure 1. DC Power Supply

Figure 2. Model 3088/CA front panel

2.3 Power up indication

Verify that the *Power* LED (see **figure 2**) illuminates and remains lit.

3.0 Connect the G.SHDSL port

1. Obtain single-twisted-pair cable with an RJ-45 plug connector at each end.
2. Plug one end of the cable into the RJ-45 socket (labelled *DSL)* on the RocketLink-G NTU.
   — **If you are connecting to a DSL service**, plug the other end of the cable into the RJ-45 wall socket that provides your G.SHDSL service.
   — **If connecting to another RocketLink-G,** verify the other end of the cable is connected to the DSL port on other RocketLink-G and the DSL port is correctly configured.
3. When a DSL link is established, the front-panel *DSL* LED will turn on.

4.0 Connect the serial port

Your RocketLink-G comes with one of the following serial WAN ports for connection to an NTU:
- V.35 (DB-25F) — Model 3088/CA
- X.21 (DB-15) — Model 3088/D
- T1/E1 (120-Ohm RJ-48C and dual 75-Ohm BNC connectors) — Model 3088/K
- T1/E1 (RJ-48C) — Model 3088/T

Connect the serial cable to the RocketLink-G serial port as follows:

1. Attach the male connector of the serial cable to the female serial connector on the RocketLink-G.

2. Attach the other end of the cable to the serial connector on the local serial NTU.

   Note The V.35 interface is wired as a DCE. To connect the V.35 interface to third-party equipment wired as a DCE, you must use a tail-circuit cable. You can purchase a tail-circuit cable from a datacom-supply vendor. A tail-circuit cable will cross-over the necessary V.35 signals so that the two DCE interfaces can communicate.

   Note You can connect the V.35 interface to an M/34 connector using Patton's Model 2-34F25M interface adapter.

   Note The X.21 interface is wired as a DCE. If you need to change the orientation ti DTE, refer to section "Connecting the Model 3088/D (X.21) Serial Interface" in the *Model 3088 Series Getting Started Guide*, The X.21 interface requires a cable with a male DB-15 connector.

   Note You can configure the T1/E1 interface to either recover the network clock from the T1/E1 line or supply the network clock for the T1/E1 line.

5.0 Additional information

For detailed information about installing, configuring, operating, and troubleshooting, refer to the *Model 3088 Series Getting Started Guide* on the enclosed Patton CD-ROM or at **www.patton.com/manuals**.

A.0 Compliance Information

A.1 Compliance

EMC:
- FCC Part 15, Class A
- EN55022, Class A
- EN55024
- GOST-R

Safety:
- UL 60950-1/CSA C22.2 N0. 60950-1
- IEC/EN60950-1
- AS/NZS 60950-1
- GOST-R

PSTN Regulatory:
- FCC Part 68
- CS03

- TBR12 & 13 (K and T models)
- AS/ACIF S016:2001 (K and T models)
- AS/ACIF S043:2003
- Д-СПД-1979, expires 21.04.2011(3088/T/EUI)
- Д-СПД-1980, expires 21.04.2011(3088/K/EUI)
- Д-СПД-1981, expires 21.04.2011(3088/D/EUI)
- Д-СПД-1982, expires 21.04.2011(3088/CA/EUI)

A.2 FCC Part 68 (ACTA) Statement

This equipment complies with Part 68 of FCC rules and the requirements adopted by ACTA. On the bottom side of this equipment is a label that contains—among other information—a product identifier in the format *US: AAAEQ##TXXXX*. If requested, this number must be provided to the telephone company.

The method used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact our company. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

1.3 Radio and TV Interference (FCC Part 15)

This equipment generates and uses radio frequency energy, and if not installed and used properly—that is, in strict accordance with the manufacturer's instructions—may cause interference to radio and television reception. This equipment has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection from such interference in a commercial installation. However, there is no guarantee that interference will not occur in a particular installation. If the equipment causes interference to radio or television reception, which can be determined by disconnecting the cables, try to correct the interference by one or more of the following measures: moving the computing equipment away from the receiver, re-orienting the receiving antenna, and/or plugging the receiving equipment into a different AC outlet (such that the computing equipment and receiver are on different branches).

1.4 Industry Canada Notice

This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

This Declaration of Conformity means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction. Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above condition may not prevent degradation of service in some situations. Repairs to some certified equipment should be made by an authorized maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment. Users should ensure for their own protection that the ground connections of the power utility, telephone lines and internal metallic water pipe system, are connected together. This protection may be particularly important in rural areas.

A.5 EC Declaration of Conformity

(See section **A.6 "EG-Konformitätserklärung"** for German version.)

Product Description: RocketLink-G 3088 Series

This equipment conforms to the requirements of Council Directive 1999/5/EC on the approximation of the laws of the member states relating to Radio and Telecommunication Terminal Equipment and the mutual recognition of their conformity.

$C\epsilon$ The safety advice in the documentation accompanying the products shall be obeyed.
The conformity to the above directive is indicated by the CE sign on the device.

The signed Declaration of Conformity can be downloaded from **www.patton.com/certifications/.**

A.6 EG-Konformitätserklärung

(see section **A.5 "EC Declaration of Conformity"** for English version)

Produktbezeichnung: RocketLink-G 3088 Sendereihe

Die bezeichneten Produkte stimmen in der von uns in Verkehr gebrachten Ausführung mit den Vorschriften folgender Richtlinie überein:

R&TTE 1999/5/EG

Richtlinie des europäischen Parlaments und des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über Funkanlagen und Telekommunikations-Endeinrichtungen und die gegenseitige Anerkennung ihrer Konformität.

CE Die Sicherheitshinweise in der mitgelieferten Produktdokumentation sind zu beachten. Die Konformität mit der oben erwähnten Richtlinie wird durch das CE-Zeichen auf dem Gerät bestätigt.

Die unterzeichnete Konformitätserklärung kann heruntergeladen werden von: **www.patton.com/ certifications/.**

A.7 Authorized European Representative

D R M Green

European Compliance Services Limited.

Oakdene House, Oak Road

Watchfield,

Swindon, Wilts SN6 8TD, UK

Copyright statement

Trademarks statement

The term *RocketLink-G* is a trademark of Patton Electronics Company. All other trademarks presented in this document are the property of their respective owners.

Patton support headquarters in the USA

- Online support: Available at **www.patton.com**

- E-mail support: E-mail sent to **support@patton.com** will be answered within 1 business day

- Telephone support: Standard telephone support is available five days a week — from **8:00 am** to **5:00 pm EST** (**1300** to **2200 UTC/GMT**) — by calling **+1 (301) 975-1007**

- Support via VoIP: Contact Patton free of charge by using a VoIP ISP phone to call **sip:support@patton.com**

- Fax: **+1 (253) 663-5693**

Alternate Patton support for Europe, Middle East, and Africa (EMEA)

- Telephone support: Standard telephone support is available five days a week — from **8:00 am** to **5:00 pm CET** (**0900** to **1800 UTC/GMT**) — by calling **+41 (0)31 985 25 55**

- Fax: **+41 (0)31 985 25 26**

> **Note** For additional service and support information, refer to the "Contacting Patton for assistance" chapter of the *RocketLink-G 3088 Getting Started Guide* located on the CD-ROM that came with your RocketLink-G Router or available online at www.patton.com.

Warranty, Trademark, & Compliance Information

For warranty, trademark and compliance information, refer to the *RocketLink-G 3088 Getting Started Guide* located on the CD-ROM that came with your NTU or available online at **www.patton.com**.

In accordance with the requirements of council directive 2002/96/EC on Waste of Electrical and Electronic Equipment (WEEE), ensure that at end-of-life you separate this product from other waste and scrap and deliver to the WEEE collection system in your country for recycling.

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