



PatapSCO's Liberator® "Q"

Product Details

Quad-Port ISDN T1/E1 PRI mux, converter, sharer, switch or concentrator

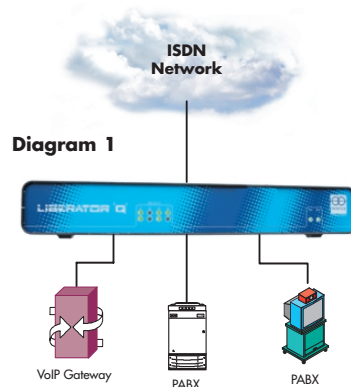


Main Features:

- Supports 4 ISDN PRIs
- T1 ISDN and combined T1/E1 user-selectable versions
- User-switchable NT/TE interfaces (connects to a network and local equipment)
- Support for Fraction PRIs
- E1 to T1 conversion
- A-Law to μ -Law conversion
- T1 Robbed-Bit Signalling available soon - convert between T1/E1 ISDN and RBS
- Any timeslot to any timeslot connectivity
- AC or DC PSU options
- Clocking hierarchy
- Support for contention or over-booking
- Local Call Progress Tone generation
- Overlap and en-block dialling supported.
- Optional sophisticated number manipulation/conversion/LCR
- Automatic Primary/Secondary/Tertiary routing of calls on unavailable and busy
- Different routing profiles can be scheduled at different times of the day/week
- ISDN Layer 2 and Layer 3 message capture and log for analysis
- Easy and intuitive to configure via GUI management package
- Very attractive pricing
- Approved (Telecoms, Emissions, Safety)
- RoHS compliant for Europe

Overview

Liberator "Q" (Quad) is a non-blocking 4-port PRI ISDN cross-connect switch with advanced routing and conversion options.



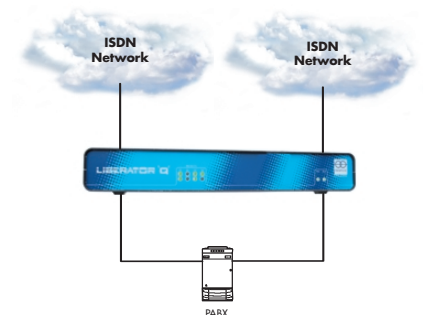
Using flexible Routing Profiles, individual "B" channels or timeslots can be switched to any PRI within the unit. Call routing is performed on DDI (dialled number), CLI, sub-address, call type and originating port or any combination. Timeslots within a single PRI or across multiple PRIs can be grouped in any combination to provide Hunt Groups. If destinations are unavailable, busy or not answered Secondary and Tertiary Routing Profiles can be configured to alternate numbers/PRIs such as a voice mail account or back into the PSTN. Contention or over-booking is supported if required.

PacketBand "Q" optionally provides a great deal of flexibility for Numbers Conversion/Translation. Different combinations of numbers can be selected, for example leading digits, those in the middle, or at the end of a dialled number, and these can be modified in many ways, replacing digits, exchanging them or adding extra ones as needed. This can be used for least-cost routing, call re-direction hiding the destination number, resilience purposes and many other applications. Number barring is also provided.

If BRI ports are needed, use the Liberator "S" on one of the PRI ports to deliver 4, 8 or 16 BRIs, both NT and TE as in Diagram 2.

The PRI ports themselves can be connected to the network or to local devices and support ETSI E1 PRI and ANSI T1 PRI (as well as some other variants such as the Hong Kong PRI). It is possible to mix both E1 and T1 ports within a single Liberator "Q" unit. A-Law – μ -Law conversion is selectable as well as ANSI and ETSI tones for interoperability of voice devices.

Diagram 2



DbManager

DbManager provides a high-quality GUI interface to all units. Configuration is intuitive and simple with good diagnostic features such as the ability to track and capture all ISDN signalling between ports. SNMP Traps & Alarms can optionally be generated.

Liberator "Q" can be locally managed via a serial port or from a remote location via an ISDN call.

The supplied free of charge DbManager "DbLite" is a sophisticated but simple to use intuitive Graphical User Interface (GUI) which controls, configures and monitors Liberator units. Optional versions of DbManager can manage multiple units and generate SNMP Traps & Alarms.

All PatapSCO products are designed and manufactured to the highest standards and all are approved.



PatapSCO's Liberator® "Q" Product Details

Technical Specifications:

PRI Interfaces

Two pairs of ports are Power-Failure Relay Protected
Typical driving distance – 500m
Switchable NT/TE with straight cables

E1

RJ45 120Ohm balanced
G.703 HDB3 encoded
ETSHSS1 (EuroISDN)
ETSI Q.931/921
ETSI 300-011 (layer 1)
ETSI 300-125 (layer 2)
ETSI 300-102 (layer 3)*
Approved to TBR4
Selectable CRC4 or non-CRC4 Framing

T1

RJ45 100Ohm balanced
ESF or D4 framing
B8Zs or AMI line coding
NI-2 North American National
DMS-100 and 5ESS switch variants
AT&T TR-62411 and ANSI T1.403
Robbed-Bit Signalling available soon. Call for details
Hong Kong variant available

Serial Control Port

RJ11 with Drycontact Alarm Relay
Access password protected
Asynchronous, 8 data, 1 stop bit, no parity speed 19.2 to 115kbaud

Approvals

All approvals completed in UK
Accredited laboratory - reports available

Telecomms

TBR12/TBR13
TBR4:1995, 1997 Amendment
TIA/E14S/968
TNA117
AS-ACIF-S006/S016
CS03 Canada

EMC

EN55022:1988
EN55024:1988
EN61000-3-2/3:1995
AS/NZS CISPR22:2000

Safety

IEC60950-1:2002 including National differences:
ACS/NZS60950:2000
AS/NZS3260:1993
ACA TS001:1997

Power

Internal AC PSU

Standard IEC connector
Auto-sensing
95-250 VAC 15W
Max consumption
0.13Amps RMS @230VAC
Optional internal DC PSU (replaces AC)
Screw terminals
33 to 75VDC
Max consumption typically 0.35Amps

Mechanical & Environmental

Metal chassis 292w x 200d x 44h mm -1U
Optional 19" rack-mount kit
Weight 1.1Kg
Operating temperature 0-50 °C
Humidity 10-90% non-condensing

Maintenance

No user-serviceable parts
No maintenance required
Battery for Real-Time Clock and NV
RAM elements has a typical 10-year life

ROHS

Fully lead-free and ROHS compliant

*Not all Supplementary services. Most common are supported but some more unusual ones may not be. Call for specifics.

Ordering information:

Hardware Packages

4-port T1 PRI switch	LIBQ-4T-1
4-port T1E1 PRI switch.	LIBQ-4ET-1

Hardware Options

DC PSU option per element (replaces internal AC)	PB-LIB-Q-DC
Rack Mount Kit	PB/RMK/2
Cable Pack incl Controller Cable	lib/cpack/4P

Software Option

Number Conversion/Translation	LIB-Q-NC
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DbManager

Single work station DbLite support for one unit (FOC).	DBM/LITE
Single work-station DbManager with visibility/connectivity to 4 units.	DBM/1/4
Single work-station DbManager with visibility/connectivity to 10 units.	DBM/1/10
Other options are available. Please call.	

Support

Annual Agreement covering Telephone Support, Product and DbManager updates and enhancements.	LIB-Q-ATSL
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For further information on the Liberator "Q", please contact PatapSCO.

All details subject to change without notification E&OE

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