DPX-400-S-BT-DSL500

VDSL2 LAN extension with a 3.5G serial TSC SCATS & Bluetooth data back-up path
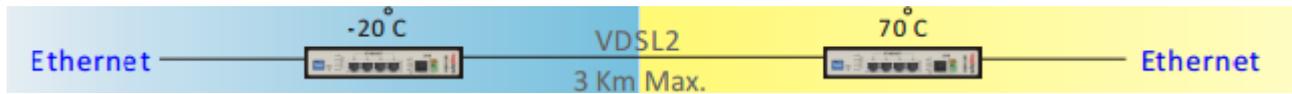
Draft - *Strictly "Commercial in Confidence"*

The specifications in this document may change without notification

July 2016

Author: Chris Svolos
Document No: 600-DOC-v1.1

DPX-400-S-BT-DSL500 Technical Specifications

DPX-400-S-BT-DSL500 is a SCATS® compatible Industrial VDSL2 device with a 3.5/4G back-up system.
(NB- DSL620 models are available to Support ADSL2+ and SNMP management)

This router is equipped with three unused Gigabit LAN ports for IP/Surveillance etc. It is compliant to ITU-T G.993.2 and G.993.5 standards and supports VDSL2 profile 30a that features 100Mbps of symmetric data. DPX-400-S-BT-DSL500 is fully managed and designed for harsher environments and applications.

VDSL2 FEATURES

Standard Conformance	
Standard:	IEEE802.3 standard IEEE802.3u standard ITU-T G993.2 VDSL2 standard
Regulatory Compliance:	FCC Class A CE RoHS compliance

- Auto speed for Line port and Interleave mode selectable through CO side DIP switch
- Long reach mode up to 3 km with 24 gauge phone wire
- Supports up to 100 Mbps symmetric (distance based)
- Supports power failure alarm by relay
- DSL Redundant dual DC input power 12-48VDC via 4 way microfit (Supports Surge protection)
- Supports power failure alarm by relay via 4 way microfit connector
- IP30 metal housing and DIN rail support
- Selectable CO and CPE mode via DIP switch
- Selectable fast and interleaved mode
- Selectable target band plan
- Selectable target SNR margin 9dB or 6dB
- Chipset Metanoia
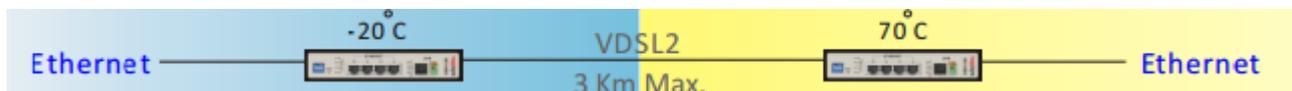- MTBF 50,000 hrs

RESET BUTTON

- Reset button (recessed, requiring pen/paperclip) with three functions: Power LED wakeup, Reset/re-boot, and reset unit to factory defaults

LED INDICATORS

- VDSL2/ADSL2+: LAN: Act/Link, Power, VDSL2: Link
- Mobile broadband LEDS: Tri-colour (Red/Amber/Green) LEDs. Power, WLAN, Mobile Broadband, Service Type and Signal Strength indicators

INTERFACES ON VDSL UNIT

- 4x RJ-45 10/100/1000Mbps (IEEE 802.3 10Base-T, 802.3u 100Base-TX, and 802.3z 1000Base-TX)
- RJ-11 (and 2 Wire line Terminal block)
- PTM / ATM Transmission
- 1 x multipurpose I/O pin

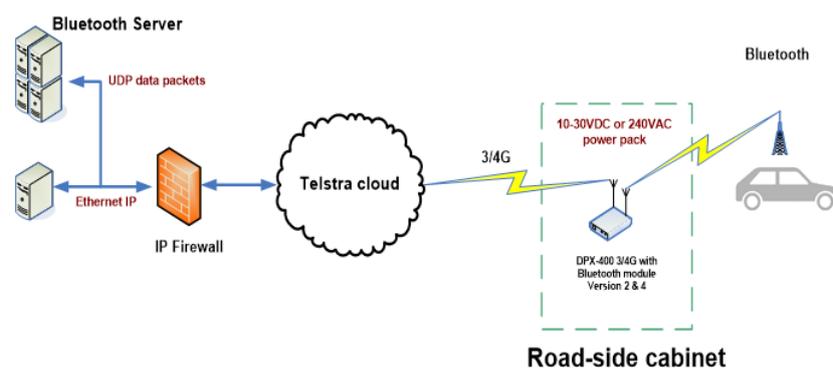## DPX400 MOBILE BROAD-BAND and TSC Serial Interface Features

Based on Telit Module HE910-DG

Product	Operating Bands 3G	Frequency Bands [MHz]
HE910-DG	B5, B8, B2, B1, B4	800/850, 900, AWS1700, 1900, 2100

Bluetooth application Overview

The DPX-570 (DPX-570-BT) Bluetooth is used for detecting and collecting MAC address for travel time applications. Due to the existence of a dual Bluetooth function, it is capable of detecting up to 20% more MAC addresses in the 15 second scan period than a single antenna DPX400-S-BT device.

DPX-400 Mobile Broadband (3/4G) Bluetooth modem device

BLUETOOTH FEATURES

- Bluetooth v4.0 (Bluetooth low energy and Classic Bluetooth)

- Range 250 -300 m, external antenna

- Throughput 1.3 Mbps (Classic Bluetooth)

- Low Emission Mode® Prevents disrupting other 2.4GHz radios

- Wireless Multi-drop™ for simultaneous connections to Bluetooth low energy and Classic Bluetooth devices

- Extended Data Mode™ individually controlled multipoint data channels 1

- Quality of Service (QoS)

- Repeater functionality Extended range 1

ANTENNA CONNECTORS

- 1x SMA connectors for 3G/4G
- 1x Reverse SMA connectors for Bluetooth
- SIM Security Management (PIN configuration, enable and disable)

ADMIN & CONFIGURATION

- Web-based User Interface for device status and configuration
- Configuration file backup and restore for quick device configuration
- SMS messaging (Send/Receive) of simple diagnostic
- Support for Ping , ICMP Ping
- Diagnostic serial USB Log
- NTP Server Support for network time sync of device's system clock
- Diagnostic option and Reset via SMS command option
- Multiple firmware image storage on device and dynamic install
- Triggered firmware upgrade via USB

RESET BUTTON
- Reset button (recessed, requiring pen/paperclip) with three functions: Power LED wakeup, Reset/re-boot and reset unit to factory defaults

TEMPERATURE
- Operating Temperature: -40ºC to +70ºC
- Storage Temperature: -40ºC to +70ºC

POWER SUPPLY

- Power input and I/O via 2 way Molex mini-fit connector
- DPX400 DC Power (8 - 30V DC) , idle 100mA @12VDC
- System total power usage 8W

DIMENSIONS

- Device dimensions (excluding external antenna): 236 x 125x 85 mm

MOUNTING OPTIONS

- DIN Rail mount support optional

CERTIFICATIONS

- CE (Europe)
- RCM (Australia) *Pending*
- RoHS

END

Dataplex Pty Ltd 1 Rivett Rd North Ryde 2113 NSW Australia +61 2 9869 2500
www.dataplex.com.au