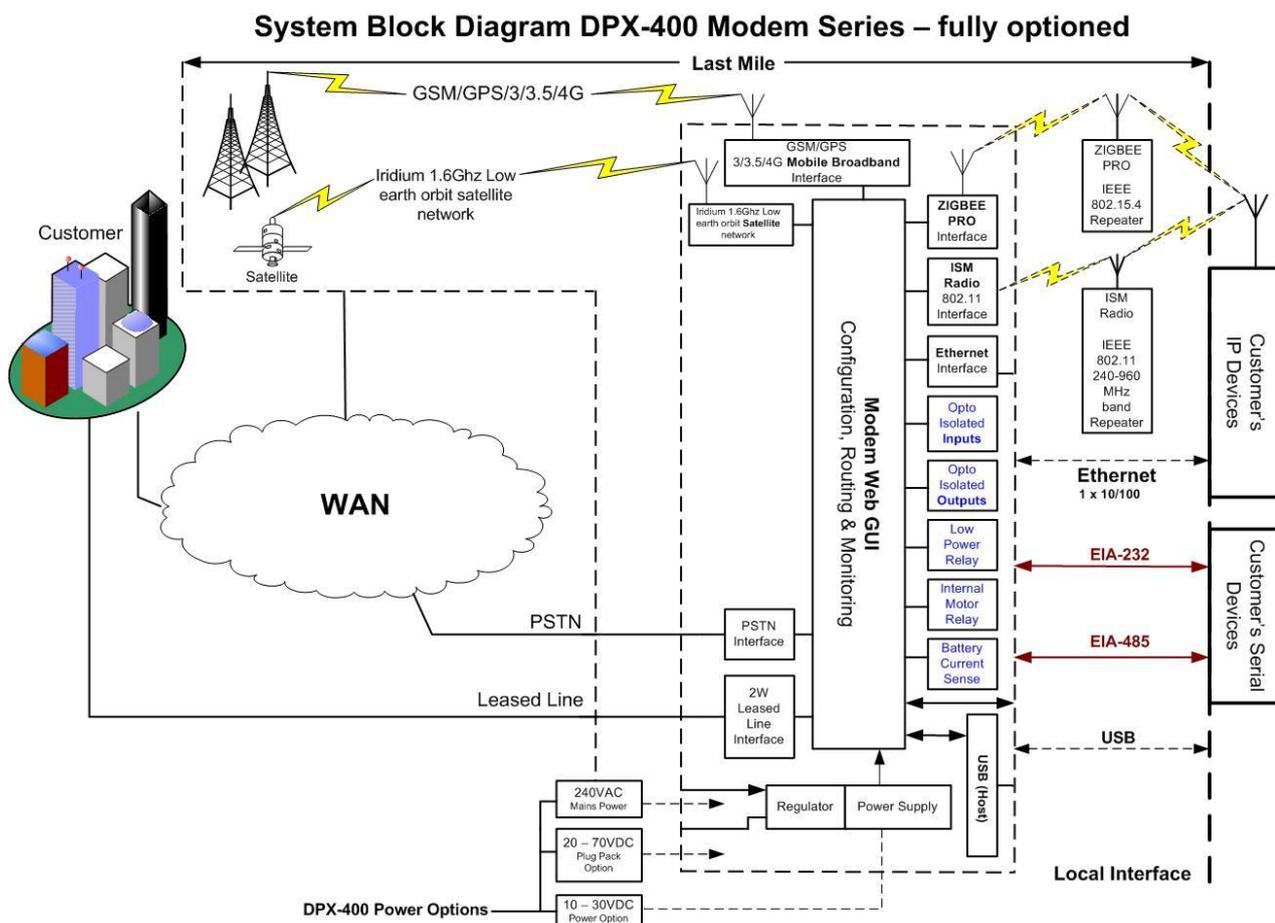


DPX-400 multi interface Industrial Modem (SCATS[®] operations optional TSI-SP-027)



The DPX-400 family of device servers are specifically designed to operate in harsh industrial environments, providing rugged form factors and managed communications performance in control applications requiring high levels of reliability and availability.

Application Example for Fully Populated DPX-400 Device



** Customers can fit any of the options required.*

The DPX-400 base unit offers one each of the following:

- Galvanically isolated serial port DB-25, EIA-232 (RS-232) serial port with full signalling for asynchronous 115kbps serial data
- Ethernet 10/100BaseT port
- USB Mini A/B 2.0 OTG (on the go) port for serial access or status reporting.
- Expansion port interface for daughter board communications.

Separately specified remote connectivity includes:

- Integrated V.90 modem – dial up and leased line, 1 Port, Unshielded, RJ11 Connector – Dial up &/or Leased Line, Baud rates 300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200bps full duplex
- Mobile Broadband - 3G/3.5G or 4G - GSM, GPRS, EDGE, UMTS, FD-LTE and HSPA with 2 x SMA connector
- ZigBee Pro - IEEE 802.15.4, 2.4 GHz frequency band 1 x SMA connector
- ISM Radio, currently at 915 MHz capability of 240 ~ 930 MHz Spread Spectrum Un-licensed Radio
- Iridium 1.6Ghz low earth orbit satellite network module
- EIA-485 Isolated 2 or 4 wire

Power capabilities include:

- Integrated 9-30VDC power supply (optional external power pack for 48VDC or 240VAC)
- Optional Integrated full brownout/inbuilt UPS protection from 20 seconds to 2 minutes depending on installed modules and activity.

Expansion board and other options

- I02: 1 x lo pwr and/or 1x dual high pwr Relays, 8 x Isolated Inputs, 8 x Opto-Isolated Inputs, 4 x Opto-Isolated Outputs and a DB9 serial interface. (Opto Input triggers can be linked to SMS messages, Web counters and SCATS® XSF/MSS functions). Battery or motor current sensing.
- SCATS® operation according to specification **TSI-SP-027**
- EXP: 1 x Ethernet 10/100 BaseT and 3 x DE9 Serial ports
- Super-capacitor based UPS and monitoring of input power allows SMS or IP “last gasp” messages
- For custom interfaces and customised data processing requests ; please contact Dataplex

DPX-400 System Configuration

- Web browser based configuration, simple operation for IP setup, Two level password security
- Internal offline duplicate flash for backup of configuration
- Serial configuration upload
- GUI configuration provides port configuration, status, statistics, monitoring diagnostics and security setup
- Individual interfaces can be connected locally or to remote units via web browser configuration

Management Tools

- Web-GUI configuration, limited CLI serial commands
- SMS alarms, data port routing, “last gasp” IP message

SMS

- GUI based Simple messages linked to programmed isolated Digital Input triggers or EIA-232 pins e.g. loss of DTR
- Ethernet directed commands or serial command access to 3G/3.5G/4G modem to support SMS server applications

Power Supply Options

- Fully integrated internal power supply 9-30VDC
- UPS storage super-capacitors for up to 2 minutes backup (depends on installed modules and activity)
- Optional 48VDC (20-70VDC) plug-pack or 240VAC DIN module.
- Optional 240VAC slimline plug pack

Environmental

- DPX-400 has low power consumption suitable for harsh or solar powered environments (From around~2.5W down to 0.6W depending on version)
- Resistant to EMI and electrical surges
- Commercial (-10°C to +70°C) or industrial (-40°C to +85°C) operating temperature (fan-less)

Enclosure Options

- DIN rail/standalone mounting (w) 230 x (d) 112 x (h) 67mm

Other hardware Features

- DIN Rail mounting option for roadside cabinets
- Input Voltage and / or current monitoring (providing the ability to monitor battery charge and cumulative statistics recording can provide information about the performance of the solar array or based on a warning threshold an alarm can be raised).
- Sealed against vermin entry
- Fanless, with very low power operation (limits installed hardware) as an option.
- Intelligent shutdown of unused parts of the device to reduce power consumption.
- Potential multi-hop Expansion for custom local devices including servicing co-located units via short range ZigBee Pro or ISM Sub-1Ghz radio links.
- DPX400's can be inter-connected by Ethernet and ports individually routed in a network using TCP or UDP packets
- Australian design & build with customisation as required.

END