

# 12-76-0000 TELEMETRY UNIT PRODUCT INFORMATION

**Note:** Panels with an orange background indicate that the product is still in development



## COMMUNICATIONS OPTIONS

Any one of the optional communications cards can be plugged into the 12-76

### Standard RS232C Interface

The 12-76 is provided with a standard RS232C interface. This is normally used for unit configuration, but can also support other options such as:

- Cellular - CDMA
- Cellular - GPRS
- Direct Rs232 command set

**Note:** A second *optional* RS232 port can be plugged in which supports all the same options.

### Option 1- 922MHz Spread Spectrum

Plugging in a Salcom 36-40-0922 922MHz spread spectrum transceiver provides a cost effective short range communications network.

Multi-point systems can be engineered using these modules.

The range of the transceivers can be enhanced by the use of external or yagi aerials.

### Option 2 – 1200 baud AFSK Radio or Line Modem

Plugging in a Salcom 12-76-2000 radio or line modem provides the following communications options:

- Simplex Radio
- Duplex Radio
- Leased 600 Ohm Line

When used on radio networks the modem interface supports PTT, Channel Busy etc.

### Option 4 – TCIP LAN/WAN Network Interface

Plugging in a 12-76-3000 TCP/IP network adaptor allows the 12-76 to be interfaced to a Local Area Network or Wide Area Network.

### Option 5 – 5 Tone Sequential Interface

Plugging in a 12-18 tone sequential encoder/decoder provides for backwards compatibility with older signalling systems and networks.

This allows the 12-76 to be integrated into existing systems, but at the same time take advantage of the added power and flexibility the 12-76 offers.



SALCOM 12-76 TELEMETRY UNIT

### I/O - Digital Inputs

The 12-76 provides 8 standard digital inputs.

These can be configured to transmit their status to a single companion unit, or split out to a range of multiple units.

In addition to the standard inputs there are 6 auxiliary inputs which can be configured for any unique application-specific requirements.

### I/O - Digital Outputs

The 12-76 provides 8 standard relay outputs which are set to Normally Open by default.

In addition to the 8 relay outputs, 4 general purpose Open Collector outputs are available.

### I/O - Analog Inputs

The 12-76 provides 8 analog inputs.

These inputs can be configured for:

- 4 to 20mA loop current
- Standard voltage

They can also be configured for:

- High/Low trip points
- Differential

### I/O - Analog Outputs

The 12-76 has 2 standard analog 0 to 5 volt outputs.

These can be converted to 4 to 20mA loop current when interfaced to a Salcom 12-14 Analog 4 to 20mA Converter.

### I/O Expansion Module

The I/O of the 12-76 can be expanded with the use of the 12-76-4000 expander.

This module will add 16 digital and 8 analog inputs and 16 digital and 8 analog outputs to the basic 12-76. The 12-76 can support up to 8 expansion modules.

Communication between the basic unit and the expander is via I<sup>2</sup>C.

## INPUTS AND OUTPUTS