

## Converter/Monitor (cont.)

The RS-232 connectors may be connected directly to a PC using a 1:1 cable.

The RS-422/485 connectors implement the popular SA-Bus pinout, which is to be found on most equipment manufactured by Double D Electronics Ltd, as well as the equipment of many other manufacturers.

Channel 1 has a loop-in connection for the RS-422/485, and implements a simple patch panel, allowing support for other connector pinouts.

Channel 2 implements the interface conversion facilities as a subset of channel 1's capabilities.

The unit is powered from a plug top power supply.

Selection Guide	
<b>DDA225-01</b>	RS-232 to RS-422/485 Converter/Monitor, including plug top power supply for UK mains, jumper leads for patch panel and manual

## Modular IF Amplifier Subsystem

- 50-300MHz
- Various gain options
- Up to 9 amplifiers in 3U rack
- 1+8 redundant system in 6U rack
- Amplifier fault detection
- 50Ω and 75Ω versions
- Optional splitter for DA applications
- Individually replaceable amplifier modules
- Redundant Power Supplies
- Summary alarm output

The DDA226-XX provides up to nine IF amplifier channels, covering the frequency band used for IF in satcom and other applications. Each amplifier is contained in a separate module, allowing one channel to be replaced without affecting the rest of the unit.

In the simplest configuration the unit provides a number of independent amplifiers, with individual BNC connections for input and output. An optional internal splitter turns the unit into a distribution amplifier, accepting a single input and generating up to eight individually buffered outputs.

A further option adds redundancy switching capabilities similar to those provided by the DDA89, giving a 1+8 amplifier subsystem in a 6U rack. Each amplifier module incorporates power supply current monitoring to detect most faults.

## Modular IF Amplifier Subsystem (cont.)

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Each amplifier module incorporates power supply current monitoring to detect most faults.

As standard each amplifier has a fault status indicator, and the overall unit has a summary alarm output. Individual alarms may be made available as an option.

The complete unit is powered from dual modular power supplies, each of which is capable of supplying the full power requirement.

The unit has been designed for simple maintenance - any individual amplifier or power supply may be exchanged without removing the unit from the rack, and without additional disruption to service.

### Specification

<b>Physical</b>	19" rack, 3U high, 360mm deep (excluding connectors). (6U high with integral redundancy controller)
<b>Power</b>	90-254V a.c., 48-62Hz, 100VA max. Redundant power feed (dual power supplies) via two IEC mains inlets
<b>Amplifier</b>	Up to nine modules: Connectors - BNC (50Ω or 75Ω as appropriate) Gain - 11.0dB minimum as standard - other options available Frequency range - 50-300MHz Input return loss - TBD Noise figure - TBD Fault detection using supply current monitoring
<b>Fault output</b>	9-pin D-plug carries two volt-free Form C contact; alarm signalled on fault from any amplifier or mains power supply.

### Selection Guide

<b>DDA226-GFn</b>	IF Amplifier shelf
In the above part number, substitute as follows:	
<b>G</b>	Amplifier Gain & impedance 0 - 11.0dB minimum 75Ω (standard) 5 - 11.0dB minimum 50Ω (standard)
<b>F</b>	Functionality: 0 - Individual amplifiers 1 - Input splitter 2 - 1+n redundancy (6U unit)
<b>n</b>	Number of amplifiers to be supplied - 1..9.