## X-Band Synthesized Frequency Converter

## Single / Dual <br> FCS200



## Features

- 70 MHz IF
- Cost effective solution
- Fully compliant with IESS 308/309 requirements
- High linearity
- 125 kHz step size
- Front panel control (local)
- Full remote control (remote)


## Overview

The Advantech Wireless range of converters uses the latest technology in conversion, local and remote control thus providing the ultimate in performance and user friendly operation at a very competitive price.

The spectral purity, low phase noise and stability exceed the requirements of all major international satellite network operators.

The flexible and comprehensive monitor and control features on the HP converter ensure that it will fit into any network management system architecture. The user-friendly front panel or the RS485 remote interface will provide full set-up and fault monitoring facilities. The RS232 will provide the Monitor and Control functions via a PC and will also allow for software downloading.

The converter is fully synthesized with the PLL oscillators either locked to a highly stable internal 10 MHz reference or if the external reference option is fitted and the proper level of signal is present, the PLL will automatically lock to the external reference.

## Options

- 140 MHz IF Frequency
- Ethernet port and SNMP Interface
- Single or Dual in 1 RU shelf
- Low Group Delay (option)
- Redundant Ready (for 1:N)
- 10 MHz Internal /External Reference with Auto-sensing


## Operating Bands

| Up-Converters |  |  |
| :---: | :---: | :---: |
| Model Number | RF Output | IF Frequency |
| ARUN-70XS <br> (single converter) | $7.9-8.4 \mathrm{GHz}$ | 70 MHz |
| ARUD-70XS <br> (dual converter) | $7.9-8.4 \mathrm{GHz}$ | 70 MHz |


| Down-Converters |  |  |
| :---: | :---: | :---: |
| Model Number | RF Input | IF Frequency |
| ARDN-XS70 <br> (single converter) | $7.25-7.75 \mathrm{GHz}$ | 70 MHz |
| ARDD-XS70 <br> (dual converter) | $7.25-7.75 \mathrm{GHz}$ | 70 MHz |


| Up/Down-Converters |  |  |
| :---: | :---: | :---: |
| Model Number | RF | IF Frequency |
| ARMT-XS70 | Up $7.9-8.4 \mathrm{GHz}$ <br> Down $7.25-7.75$ <br> GHz | 70 MHz |
|  |  |  |

## Redundancy

For systems requiring redundancy Advantech can provide $1: 1,1: 2$ and $1: \mathrm{N}$ (up to 12 ) solutions. The $1: \mathrm{N}$ redundancy is provided by the $1: \mathrm{N}$ Controller and the Switch Panel. Each Switch Panel can handle up to four (4) converter units. A 1:12 system requires one Controller panel plus three Switch Panels. A complete 1:12 complete system occupies a space of 17 U .

## Applications

The HP range of converters is particularly suited for use in VSAT, SCPC Networks, SNG, DVB-RCS and Hub systems. This makes them an ideal choice for large earth stations requiring cost effective solutions for frequency conversion. The lightweight, rugged and compact design also ensures that the HP converter provides the ideal solution for mobile truck or flyaway DSNG systems. With fully welded aluminum chassis and robust modular internal construction the converter can even meet the demands of military installations. The HP range of converters provides an industry leading MTBF of over 120,000 hours.

## X-Band Synthesized Frequency Converter



| NORTH AMERICA | EUROPE |  | Ref.: PB-FCS200-X-18228 |
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