

Frequency Block Converter FCV-KUL-U/D-1x-D

The TEMIX Frequency Converters shape the next-generation satellite transmission with its



breakthrough leading edge technology, state of the art design and unprecedented reliability.

TEMIX Frequency Converter series may combine up to 4 embedded converters in a single 1RU shelf with extensive monitor and control via front panel, Ethernet and serial ports EIA232/EIA485 (optional). Features Best in Class RF characteristic, Flexible reference with autosensing can lock to external 5/10 MHz reference or utilize built-in high stability reference oscillator.

KEY FEATURES

Superior RF performance:

- o Phase noise 15dB better than IESS308/309
- o In Band Spurious below -60dBc
- o Superior Gain flatness

Single, dual, triple and quad band frequency converters in a single 1RU chassis

User Friendly front panel with menu driven display

1:N Redundant ready

5 /10MHz external reference Autosense

RF and L-Band monitoring (opt.)

Full featured M&C Interface via SNMP, RS-232 serial console (optional), packet protocol RS-485 (optional)

Main Features

- Phase noise 15dB better than IESS308/309
- Spurious below -60dBc
- Low & High Band
- Options:
Dual Channel Down Converter with 6 outputs per channel

*The Information included in this data sheet may be changed without advise. rev_01/17

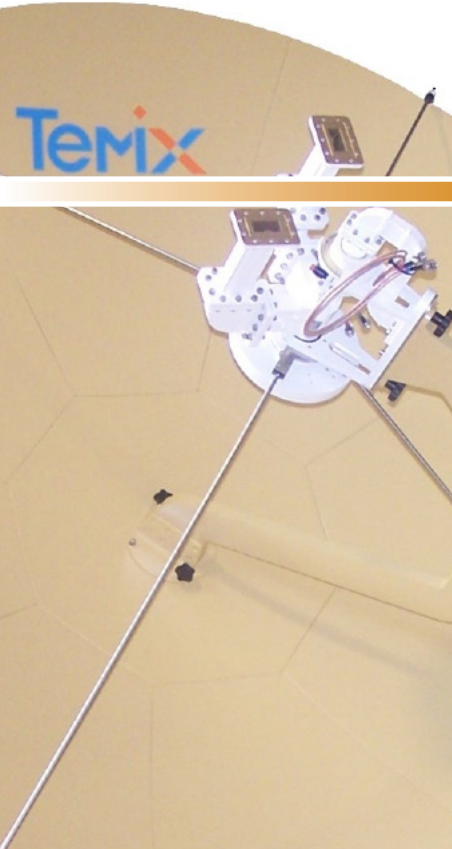
	UPCONVERTER	DOWNCONVERTER	
RF Performance	Extended Ku	Ku Sub-Band 1	Ku Sub-Band 2
RF Frequency Range	13.75-14.50 GHz	10.70-11.70 GHz	11.70-12.75 GHz
IF Frequency Range	950-1700 MHz	950-1950 MHz	1100-2150 MHz
LO Frequency	13.05GHz	9.750GHz	10.600GHz
Input Return Lost	16 dB	18 dB	
Output Return Lost	18 dB	16 dB	
Noise Figure	5 dB Max		
Conversion	Single Conversion; non-inverting		
Output Power at 1dB CP	10dBm min		
Conversion Gain	20dB (35dB optional)		
Gain Flatness	+/-1.5dB max over full band; +/-0.5dB max over any 40MHz		



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Gain Stability	+/-1.5dB over full temperature range
Gain Control	20dB min in 0.1dB Steps
External Reference Frequency	10MHz
Ext. Ref. required Phase noise:	-130dBc/Hz @ 100Hz; -140dBc/Hz @ 1kHz; -150dBc/Hz @ 10kHz; -155dBc/Hz @ 100 kHz
Phase noise: @ 100Hz	-70dBc
@ 1kHz	-80dBc
@ 10kHz	-90dBc
@ 100kHz	-95dBc
@ 1MHz	-115dBc
Spurious (non signal related)	-60dBc
MONITOR & CONTROL FEATURES	
Interfaces:	
Serial - EIA485	DB9 Connector rear panel (optional)
Serial - EIA232	RJ45 or DB9 Connector rear panel (optional)
10/100 base-T Ethernet	RJ45 Connector rear panel
Alarm	DB9 Connector rear panel
Controls:	
Gain Control	via Serial, Ethernet, Front panel
Mute Control	via Serial, Ethernet, Fr. panel, Red Int.
Local/Remote	Serial(Ethernet)/Front panel toggle
Indicators:	
Lock Status	via Serial, Ethernet, Front panel
Attenuation Status; Temperature Status	via Serial, Ethernet, Front panel
Summary Alarm Status	via Serial, Ethernet, Front panel
Mute Status	via Serial, Ethernet, Front panel
POWER SUPPLY	90 to 265VAC 50/60Hz
MECHANICAL	
Width x Height x Depth	19" Rack x 1RU x 300 mm
Color	Metallic
Cooling	Forced air
IF/RF CONNECTORS	
IF	SMA (other options available)
RF	SMA (other options available)
10MHz Ref In/Out	SMA (other options available)
ENVIRONMENTAL	
Operating temperature	0 to 60 deg.C
Storage Temperature	-40 to +85 deg.C
Humidity	0 to 95% (non-condensing)

Interfaces:

- Serial - EIA485 (opt.)
- Serial - EIA232 (opt.)
- 10/100 base-T Ethernet
- Alarm

Legenda:

- U = Block Up-Converter
 - D = Block Down-Converter
 - x = 1 n°1 D/C
 - x = 2 n°2 D/C
 - x = 3 n°3 D/C
 - x = 4 n°4 D/C
- FCV-KUL-D-12-D_6yz:
Dual Channel Block Down Converter with n°6 Outputs per Channel
y = L Low Band
z = H High Band

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