



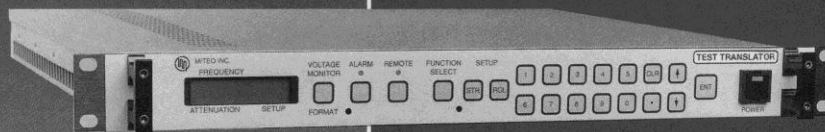
This series of test translators is designed to translate the C-, X-, and Ku-band satellite communication frequency transmit bands to their respective receive frequency bands.

TRI-BAND FREQUENCY TEST TRANSLATORS

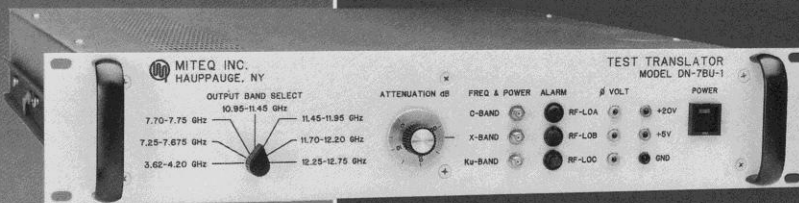
For Satellite Communications



DN-3BU LOCAL CONTROL



DN-3BU WITH OPTION 17 REMOTE CONTROL



DN-7BU-1 LOCAL CONTROL



DN-7BU-1 WITH OPTION 17 REMOTE CONTROL

OPTIONS

- Remote control with RS485, RS422, RS232, IEEE-488, or contact closure remote interface
- Digitally controlled attenuator
- Higher frequency stability
- Summary alarm

FEATURES

- Minimum amplitude and delay distortion
- High frequency stability
- Low intermodulation distortion
- 30 dB level control
- Low phase noise contribution

SPECIFICATIONS

MODEL NUMBER	BAND	RF INPUT (GHz)	LO FREQUENCY (GHz)	RF OUTPUT (GHz)
DN-3BU-1	1	5.845 – 6.425	2.225	3.62 – 4.20
	2	7.90 – 8.40	0.650	7.25 – 7.75
	3	14.0 – 14.5	1.750	12.25 – 12.75
DN-3BU-2	1	5.845 – 6.425	2.225	3.62 – 4.20
	2	7.90 – 8.40	0.650	7.25 – 7.75
	3	14.0 – 14.5	2.30	11.7 – 12.2
DN-3BU-3	1	5.845 – 6.425	2.225	3.62 – 4.20
	2	7.90 – 8.40	0.650	7.25 – 7.75
	3	14.0 – 14.5	2.55	11.45 – 11.95
DN-3BU-4	1	5.845 – 6.425	2.225	3.62 – 4.20
	2	7.90 – 8.40	0.650	7.25 – 7.75
	3	14.0 – 14.5	3.05	10.95 – 11.45
DN-3BU-5	1	5.845 – 6.425	2.225	3.62 – 4.20
	2	7.90 – 8.40	0.725	7.25 – 7.675
	3	14.0 – 14.5	1.750	12.25 – 12.75
DN-3BU-6	1	5.845 – 6.425	2.225	3.62 – 4.20
	2	7.90 – 8.40	0.725	7.25 – 7.675
	3	14.0 – 14.5	2.30	11.7 – 12.2
DN-3BU-7	1	5.845 – 6.425	2.225	3.62 – 4.20
	2	7.90 – 8.40	0.725	7.25 – 7.675
	3	14.0 – 14.5	2.55	11.45 – 11.95
DN-3BU-8	1	5.845 – 6.425	2.225	3.62 – 4.20
	2	7.90 – 8.40	0.725	7.25 – 7.675
	3	14.0 – 14.5	3.05	10.95 – 11.45
DN-7BU-1	1	5.845 – 6.425	2.225	3.62 – 4.20
	2a	7.90 – 8.40	0.725	7.25 – 7.675
	2b	7.90 – 7.95	0.200	7.70 – 7.75
	3a	14.0 – 14.5	3.05	10.95 – 11.45
	3b	14.0 – 14.5	2.55	11.45 – 11.95
	3c	14.0 – 14.5	2.30	11.7 – 12.2
	3d	14.0 – 14.5	1.750	12.25 – 12.75

FUNCTIONAL

Conversion loss.....	22 dB maximum, 18 dB typical (DN-7BU-1), 18 dB maximum, 15 dB typical (DN-3BU),
Amplitude response	±0.3 dB over any 40 MHz, ±1 dB over each output frequency band
Input/output return loss	18 dB minimum
Frequency stability	±1 x 10 ⁻⁶ /day (0 to 50°C) for DN-3BU, ±2 x 10 ⁻⁸ /day (0 to 50°C) for DN-7BU-1
Level control.....	30 dB continuously adjustable
Intermodulation distortion	With two inband signals at -13 dBm input, third order intermodulation products are less than 50 dBc
Input/output isolation	60 dB minimum

SPECIFICATIONS

PRIMARY POWER REQUIREMENTS

Voltage	100, 120, 220, 230/240 VAC +10%, -13% (rear panel selectable), 250 VAC maximum
Frequency	47-63 Hz
Power consumption	150 W typical

PHYSICAL

Weight	20 to 30 pounds nominal
Overall dimensions	19" x 1.75" panel height x 22" maximum for DN-3BU, 19" x 3.5" panel height x 22" maximum for DN-7BU-1, chassis depth 20" for both units
Connectors (rear panel)	
RF	SMA female
External reference input (Options 3, 6)	BNC female
Summary alarm (Option 7)	DE-9P
Remote interface (Option 17)	DE-9S for RS485 and RS422, DB-25P for RS232, DB-25S for contact closure, IEEE-488 receptacle for GPIB
Test points	
DC voltage (front panel)	Jack (front panel display with Option 17)
LO phase voltage (front panel)	Jack (front panel display with Option 17)
LO frequency/power monitor (rear panel)	SMA female (front panel for DN-7BU-1)

ENVIRONMENTAL

Operating	
Ambient temperature	0 to 50°C
Relative humidity	Up to 95% at 30°C
Atmospheric pressure	Up to 10,000 feet
Nonoperating	
Ambient temperature	-50 to +70°C
Relative humidity	Up to 95% at 40°C
Atmospheric pressure	Up to 40,000 feet
Shock and vibration	Normal handling by commercial carriers

New and Used Satellite Equipment - 21300 Leaman Lane - Germantown MD 20876

Email: newandused@comcast.net - Website: <http://www.newandusedinc.com>