North Texas NTMS Microwave Society

# Transverter displays at Cowtown Hamfest Jan 19-20, 2024

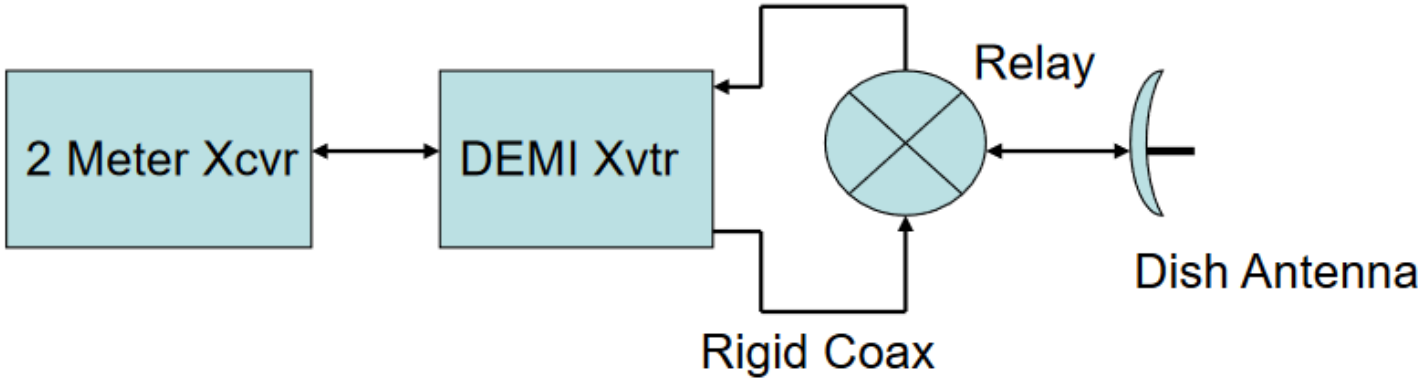
North Texas NTMS Microwave Society

# Down East Microwave (DEMI) 10 GHz Transverter

Reliable transverter with many options specified on ordering. RF output 3 w

North Texas NTMS Microwave Society

# Basic Components




- Down East Microwave 10 GHz Transverter Kit
- 2 meter I/F transceiver
- Relay and rigid coax
- Dish or Horn antenna

North Texas NTMS Microwave Society

# Down East Microwave (DEMI) 1296 MHz Transverter

Reliable transverter with many options specified on ordering. RF output 25 w

North Texas NTMS Microwave Society

# Down East Microwave DigiLO local oscillator

LO frequencies programmed through dip switch.

Good weak signal source.

North Texas NTMS Microwave Society

# Custom design DigiLO local oscillator by KI5EMN

Arduino controlled with custom frequencies selectable.

Small form factor.

Great weak signal source.

North Texas NTMS Microwave Society

# DB6NT – 10 GHz transverter

German manufactured.

Top quality, small in size.

RF output = 200 mw

North Texas NTMS Microwave Society

# DB6NT – 24 GHz transverter

German manufactured.

Top quality, small in size.

RF output = 2 watts

North Texas NTMS Microwave Society

# DB6NT – 2304 MHz transverter

German manufactured.

Top quality, small in size.

RF output = 1 watt

North Texas NTMS Microwave Society

# DB6NT – 8 to 13 GHz local oscillator

German manufactured.

Top quality, small in size.

Programmable frequency

Use with 24, 47, 76 GHz

Programmable beacon string

North Texas NTMS Microwave Society

# Wavelab 24 GHz module with control board

Commercial outdoor unit designed for 23 GHz adapted to 24 GHz with custom control board.

RF output ~ 2 w

NTMS has produced > 150 boards

North Texas NTMS Microwave Society

# Texas Microwave 10GHz 2 watt amp and power supply

Locally manufactured

Needs additional packaging and heat sink.

North Texas NTMS Microwave Society

# Surplus 18 GHz rated SMA relays (ebay)

- 12 v drive
- 24 v drive are cheaper
- Latching relays require special driver.

North Texas NTMS Microwave Society

# Surplus 18 GHz rated SMA relays (ebay)

- 12 v drive
- 24 v drive are cheaper
- Latching relays require special driver.

North Texas NTMS Microwave Society

# 144 MHz IF radios new and old

- IC-705 - portable state of the art
- KX-3 w/PX3 panadaptor – ok but drifts on WSJT using 144 IF. Better to use 28 MHz IF
- Old FT-290 – still works great