2083-1622 L-Band Channel Translator - The 2083-1622 L-Band Channel Translator converts a 40 MHz channel in the 950-1650 MHz band to a 40 MHz channel in the 500-750 MHz or 1650-2150 MHz bands or switches (user selectable) the 950-1650 input band to the output with no spectrum inversion, low group delay and flat frequency response. The 950-1650 MHz input is mixed with synthesized local oscillator (LO) signals, first to 2400 MHz center frequency (±20 MHz) and finally to the 500-750 MHz or 1650-2150 MHz bands. A splitter on the input and a SPDT switch at the output allows switching the 950-1650 input to the output at a 0 to +20 Gain identical to where the translated channel gain is set at this time. Frequency translation or by-pass, and gain (0 to +20 dB, selectable in 1 dB steps) are selectable via either the multi-function push button switches or Remote M&C (RS232 or, optional, Ethernet). Settings appear on the LCD display. Front panel LEDs light when DC power is applied (green) or a PLL alarm occurs (red). Connectors are BNC female for RF input and output. The 2083-1622 Translator is housed in an 1 3/4" X 19 " X 16" deep rack mount chassis.