

Four Configurable Paired Outputs
Rack Mount or Bench top
Ideal for Remote Test & Measurement
Compact & Light weight
Meets G.703 ITU Recommendations
Accepts 5 MHz or 10 MHz Frequency Reference



6705 Telecom Synthesizer



Overview

The Datum 6705 is a four-channel, telecom synthesizer packaged in a 1U rack mount chassis. The 6705 accepts either a 5 MHz or 10 MHz input signal from an external frequency reference source to synthesize and distribute four separate telecom output signals.

The instrument employs a board module system of paired outputs for optimum configuration flexibility. It is available with both board modules as paired clock out-

puts or alternatively with both modules as paired framed outputs, or with one framed module and one clocked module. The choice of Framed or Clocked configuration is factory set. The balanced or unbalanced mode may be independently selected for each output by a rear panel switch.



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Specifications

ELECTRICAL SPECIFICATIONS

Telecom Outputs

Frequency 1.544 MHz (T1) and/or 2.048 MHz

Level T1: ANS1 T1.102 DS1

E1: G.703/6 (Framed)

G.703/10 (clock)

Load Impedance T1: 100 Ω (balanced) or

75 Ω (unbalanced)

E1: 120 Ω (balanced) or 75 Ω (unbalanced)

Connectors BNC x4 (unbalanced) or

TWINAX x4 (balanced)

Note: Choice of Framed or Clocked configuration is factory set.

RF Input

Frequency 5 MHz or 10 MHz Amplitude 0.9 to 1.5 V rms into 50Ω

Connector BNC x1

Daisy chain output BNC x1

Impedance Switchable between HI Z (infinite)

and 50Ω

Alarm Output

Summary alarm indicates failure of the input signal or power loss on the form-C contacts and the front panel LED.

Form-C contacts

Alarm O/P Disable: Panel switch Connector type: 9 pin D-male

ENVIRONMENTAL & PHYSICAL SPECIFICATIONS

Temperature (operating) 0° C to 55° C

Relative Humidity 0 to 95 % (non-condensing)

Power Requirements

AC Input (+/-15%) 120 or 230 V AC, <10W

Dimensions

Height 1U (~1.75 inches)

Width 19 inches Depth 12 inches

Weight <10 lbs.

Options	Option P/N
• Front mounted connectors	502



Specifications subject to change without notice.