



## MRT1000 Modular Receiver Transcoder



### PRODUCT DESCRIPTION

The R.L. Drake model **MRT1000** is a commercial grade modular receiver transcoder for use in Comcast Wholesale's QuickTake (QT) and NAS systems for Headend-In-The-Sky (HITS) installations as well as Shaw's QT-Plus satellite service. The MRT1000 has a satellite demodulator module (L-band tuner) with a frequency range of 950-2150 MHz which tunes to the satellite transponder providing the required out-of-band data.

The MRT1000 extracts the data from the satellite stream, and provides it as a UDP/IP Ethernet output for connection to an out-of-band modulator (OBM) for delivery of STB authorizations, EPG and other data signaling used in the system.

### FEATURES & BENEFITS

- Designed for use in QuickTake (QT) Headend-In-The-Sky (HITS) and SHAW's QT-Plus systems.
- Frequency range of 950 to 2150 MHz
- UDP/IP Ethernet Output (10/100/1000Base-T Ethernet)

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SATELLITE INPUT	
Connector:	1x "F" Female (Rear-Panel)
Frequency Range:	950 MHz to 2150 MHz
Input Impedance:	75 Ω
Return Loss:	10 dB
Input Level Range:	-25 dBm to -65 dBm / transponder
Modulation:	QPSK, 8PSK
Format:	DVB-S2, advanced Turbo modes
Symbol Rate:	2 to 45 MSymbols/sec (Mbaud)

IP OUTPUT	
Connectors:	1x RJ45; 10/100/1000Base-T Ethernet; auto-negotiating (Front-Panel)
Protocol:	UDP
Address Assignment:	IPv4

ASI OUTPUT (NOT APPLICABLE ON THIS MODEL)	
Connectors:	N/A

ALARMS/MONITORING/CONTROL	
Local Monitoring:	1x Power LED (Front-Panel)
Local Control:	1x IP Reset Button (Front-Panel)
Remote Monitoring:	1x RJ45; 10/100/1000Base-T Ethernet (Front-Panel) (GUI-based menu via Web browser)

PHYSICAL SPECIFICATIONS	
Form Factor:	19" Rackmount - 1RU
Dimensions (W x H x D):	Approximately 19.0 x 1.75 x 14.5 inches (482.6 x 44.45 x 368.3 mm)
Weight:	8 lbs (3.63 kg)
Power Requirements:	100-120 VAC/60 Hz
Temperature Rating:	0 - 50° C Ambient