

## Dual Input 16-way Time Frequency Distribution Amplifier / Splitter

for 10MHz, PPS and any IRIG time code. With RF signal detection & output gain control

### Timecode & Frequency in same chassis

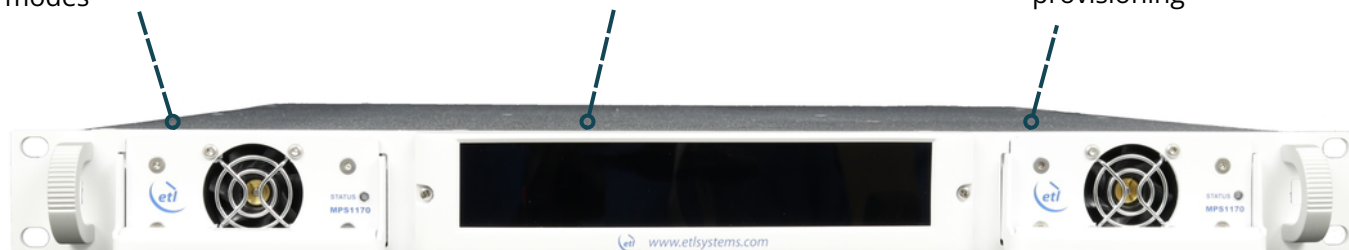
IRIG / 10MHz / PPS selectable modes

### Local Control & monitoring

Intuitive user control via high definition capacitive LCD touchscreen.

### Dual redundant Hot-swap PSUs

shared with other Genus products for easy spares provisioning



### Dual inputs

for enhanced resilience. Auto switchover function.

### Variable gain per output

to meet user system needs.

### RF level monitoring

of all inputs and outputs - with user selectable thresholds and alarms.

### Control & monitoring

remotely via RJ45 Ethernet port with SNMP, web browser interface.

### Secure

via https and SNMPv3

RF Specifications		
Capacity		16 way Splitter
Number of inputs		2 (Dual input 1 or 2 selectable or auto mode based on input signal presence)
Number of outputs		16
Switchable modes		IRIG (IRIG AM & IRIG DC formats apply) 1PPS—1MPPS 10 MHz
10 MHz Operating Frequency		
Gain Adjustment Range (software selectable)		Low Gain Mode: -10 to 0 dB in 1 dB steps High Gain Mode: -2 to +8 dB in 1 dB steps (Individually adjustable per output)
Return Loss	Typical	20 dB
	Minimum	16 dB
Amplifier Redundancy		Dual redundant amplifier input stage amplifiers only. Hot or cold standby, 1+1 redundancy with auto switchover based on amplifier current monitoring.
Isolation		>85 dB Between any RF ports
Min/Max Operating Input /output Level		+15 dBm (1Vrms)
Additive SSB Phase Noise  At +15 dBm Output @ unity gain		1 Hz -125 dBc 10 Hz -135 dBc 100 Hz -135 dBc 1 kHz -145 dBc 10 kHz+ -155 dBc 100 kHz -160 dBc
Spurious Signals		< -80 dBc
Harmonics		< -40 dBc
RF Detection Limits		-10dBm to +16dBm ±1.5dB
Pulse/DC IRIG		
Frequency		1PPS to 1MPPS
Input Level		0-6V pp      Low detection threshold 200mV or less
Output Level		5V peak nominal      High: >4.5V    Low: <0.5V
Detection voltage threshold		0.2V to 4.0V user settable in 0.1V steps
Duty Cycle		0% to 100% Output signal presence detection valid for duty cycles 1% and above.
Rise Time		<20ns
Fall time		<20ns
Jitter		<200ps RMS
Skew		<±3ns (output to output)
AM IRIG Time Code		
Modulation Frequency		Up to 1MHz
Level		0-6V pp
Gain		Unity Gain
Code format		Any IRIG format

Power		
AC Power	100-240Vac 50/60 Hz	Dual IEC INLET C14 Fused (L+N) 2A Used T2A, 250V Ceramic 5x20mm
AC Consumption	<50W At steady state	
PSU	Dual redundant & alarmed	Diode OR. Hot swap

System Control	
Local Control & Monitoring	LCD capacitive touchscreen via front panel
Remote Control & Monitoring	RJ45 port with 10baseT/100baseTX, ETL TCP/IP Protocol. SNMP. Built in web server.
Monitoring Functions	Input and Outputs signal presence. Amplifier. PSUs (Controlled by Ethernet)
Alarms	PSU, amplifiers and signal status. Full status & alarms also available via the Ethernet interface or front HMI
Security	HTTPS & SNMPv3

Environmental & Physical	
Temperature	Operating temp: 0 to 45°C Storage temp: -20°C to +75°C
Location	Indoor use only
Humidity	20 -90% non-condensing (Relative humidity)
Altitude	Operational: 2,000m AMSL (above mean sea level) Storage: 8,000m AMSL (above mean sea level)
MTTR	20 mins. 15 mins to retrieve spare and 5 mins to replace.
MTBF	Chassis & CPU >250,000 hrs. Module >110,000 hrs
Input & output ports	50Ω BNC, 50Ω SMA
Dimensions	1U high x 600mm deep x 19" wide
Weight	<10 Kg
Colour	RAL9003-White (semi-matte)

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.