



The TT5010 provides complete descrambling of multiple services in a transport stream scrambled with the Irdeto Conditional Access system.



Business Benefits

- Selectable number of descramblers for cost optimised solution
- Supports a variety of input interfaces
- Stand-alone or system operation
- Optional transport stream monitoring to check validity of incoming stream

Application

Conditional access (CA) systems are a cornerstone of the global broadcasting industry. The ability to protect and make available programme content to entitled viewers only is the foundation for all commercial broadcasting. The TT5000 family of products address the descrambling needs of digital turnaround operators who typically take in feeds from other operators and wish to remove the scrambling on the original services to allow them to be fed into a new digital broadcast chain. The most common users will be cable operators needing to descramble direct-to-home satellite feeds before applying their own conditional access. The TT5010 descrambles transport streams with Irdeto Conditional Access and offers a wide range of input interfaces and optional transport stream monitoring.

Base units

- MMI / Network Adapter offering 10Base-T for SNMP connectivity
- RS232 Connection for SW upgrade path.
- Alarm Output module providing n/c and n/o alarm indication
- 3 CA modules (TT5010/HWO/3CM7) offering extensive descrambling capacity using IRDETO CAM modules
- ASI / M2S Dual output interface

Options

Input Options

- QPSK Demodulator (TT5010/HWO/IM3)
- DVB compliant QPSK demodulator supporting symbol rates 2 - 30.5 Mbaud
- DVB ASI/M2S Electrical Input (TT5010/HWO/IL1)
- DVB ASI/M2S Electrical (Cu) input with burst mode monitoring output
- DVB ASI Optical Input (TT5010/HWO/IL5)
- DVB ASI Optical (Multimode) input with ASI Cu monitoring output
- ATM AAL-1 E3 (TT5010/HWO/IT7)
- DVB G.703 34 Mbit/s Electrical input with DVB ASI Cu Monitoring output
- ATM AAL-1 DS3 (TT5010/HWO/IT8)
- DVB G.703 45 Mbit/s Electrical input with DVB ASI Cu Monitoring output

Descramblers

- Three CAM interfaces (TT5010/HWO/3CM7)
- Optional Four CAM interfaces (TT5010/HWO/4CM7)
- Provides additional descrambling capability

Monitoring

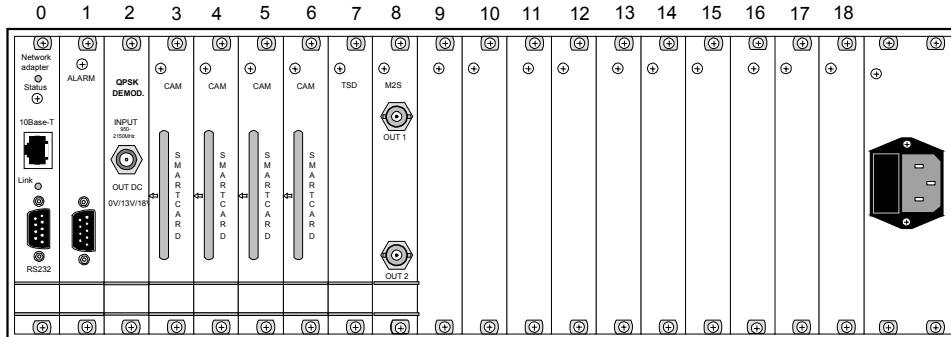
- TT4005 Monitoring Board (TT4005/HWO/MON)
- Providing key functions for Transport, Service and PID monitoring

Power

- 48V PSU DC option (TT/PSU/-48V)



Sample configuration:



INPUTS

QPSK demodulator
Carrier Frequency range: 950–2150MHz
Symbol rate: 2 – 30.5 Mbaud
ATM:
ATM AAL-1 E3/DS3
Other:
DVB ASI/M2S electrical
DVB ASI optical (Multimode fiber)

OUTPUTS

DVB ASI / M2S

FEATURES

Automatic detection of input packet length and bit-rate
Stand-alone or system operation
Add-on modules for system expansion
Configurable alarm handling
Automatic start up after power break
Max. input MPEG rate 50 Mbit/s

CONTROL

Front panel and keypad for direct configuration
SNMP Remote Control

PHYSICAL AND POWER

Dimensions:
(W x D x H) 483 x 342 x 132mm (19" x 13.5 x 3RU)
Output Voltage:
110–120 Vac or 200–240 Vac (strap selectable), -48Vdc (optional)
Cooling:
Convection, top and bottom panel perforated

ENVIRONMENTAL CONDITIONS

Operating temperature: 0°C to +45°C
Storage temperature: -20°C to +70°C
Relative humidity: 5–95%

COMPLIANCE

CE marked in accordance with Low Voltage Directive (LVD) 73/23/EEC and EMC directive 89/336/EEC

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