

Input Modules

910D - Input Conditioning/Splitter Module

Input freq. range: 1 MHz to 10 MHz
Input level: 0 dBm to +13 dBm (adjustable)
Input connector: 1 x Input, N-Type
Output connector: 6 x SMA (Signal split to five output modules, 1 spare for local cascade connection)
Alarm: Input level and Output level fault indicators, with alarm threshold adjustment on front panel

980A - RF Auto-Changeover Module

Input freq. range: 1 MHz to 10 MHz
Input level: 0 dBm to +13 dBm
Input connector: 2 x BNC (Master and Slave inputs)
Output connector: 3 x BNC (Buffered Master, Buffered Standby, and Source-in-use)
Indicators: Input level fault indicators, with alarm threshold adjustment on front panel + source in use
Remote control: TTL remote control interface and status readout, 'D-sub' connector. Front panel manual override switch

980B - Timecode Auto-Changeover Module

Input connector: 2 x BNC (Master and Slave inputs)
Output connector: 3 x BNC (Buffered Master, Buffered Standby, and Source-in-use)
Indicators: Input level fault indicators, with alarm threshold adjustment on front panel + source in use
Remote control: TTL remote control interface and status readout, 'D-sub' connector. Front panel manual override switch

980C - 1PPS Auto-Changeover Module

Input signal: 1PPS; TTL-levels in 50 ohm
Input connector: 2 x BNC (Master and Slave inputs)
Output connector: 3 x BNC (Buffered Master, Buffered Standby, and Source-in-use)
Indicators: Input level fault indicators, with alarm threshold adjustment on front panel + source in use
Remote control: TTL remote control interface and status readout, 'D-sub' connector. Front panel manual override switch

RF (1 to 10 MHz) Output Modules

Common

All output modules receive normally their input reference signal from the Input / Splitter module 910D or the 980 Changeover module.

Input signal connector: 1x SMA

909B - Standard Sinewave Output Module

Output level: specify at time of order
Output connector: 6 x BNC
Indicators: Individual output alarm indicators and user adjustable alarm threshold level

G919A - Hi-level Sinewave Output Module

Output level: up to +19 dBm 50 ohm (adjustable)
Output connector: 3 x BNC

920B - 5 to 10 MHz Frequency Doubler Sinewave Output Module

Input freq.: 5 MHz
Output freq.: 10 MHz
Output level: +13 dBm in 50 ohm
Output connector: 6x BNC

922A/B/C - TTL RS422 Output Module

Input freq.: A and C (1 to 10 MHz), B (1PPS)
Input signal.: A and C (TTL), B (RS422)
Output signal: A and B (RS422), C (TTL)
Output connector: 6x BNC

Timecode Output Modules

909E - Timecode Output Module

Input: 1x SMA (from input module 910D)
Timecode: modulated codes as presented at input
Output level: up to +13 dBm in 50 ohm (adjustable)
Output connector: 6 x BNC

930A - Universal Fiber Transceiver Module

Two channel copper/fibre transceiver module for timecodes and/or logic signals
Input: 2x BNC (TTL-levels), 2x opto (ST)
Timecode: IRIG-A, IRIG-B, NMEA, or any logic signal to 500 kHz
Output level: TTL-levels in 50 ohm (BNC)
Output connector: 2x Opto (ST-connector) 2x BNC logic outputs
Indicator: Front-panel input/output fault monitor

Power Supply Module

911 - Power Supply Module

AC mains: 115 or 230V $\pm 10\%$ (45 to 66 Hz)
DC output: via ribbon connector +/- 14V, 1A nominal, to other modules in cage
Indicators: Low voltage warning for internal DC voltages.
Alarm input: Module alarm signal input via power ribbon cable from all cage modules
Alarm output: Cage alarm relay on isolated BNC connector (normally closed)

General Specifications

Environmental Data

Operating Temp: 0°C to +50°C
Storage Temp: -40°C to +70°C
Safety: EN 61010-1, EN 60950, CE
EMC: EN 50081-1, EN50081-2, CE

Dimensions and Weight

Rack Width x Height x Depth: 483 x 134 x 350 mm (19" x 5.3" x 13.8")
Module Width x Height x Depth: 60 x 130 x 230 mm (2.4" x 5.1" x 9")
Weight: 4.0 kg (mainframe only) to 11.0 kg (fully populated)

Ordering Information

900A: 19" mainframe
909B: Standard sinewave output module
909E: Timecode output module
910D: Input splitter module
911D: 230 V AC mains power module
911E: 115 V AC mains power module
919A: Hi-level sinewave output module
920B: 5 to 10 MHz frequency doubler module
922A: 10 MHz TTL to RS422
922B: 1PPS TTL to RS422
922C: 10 MHz RS422 to TTL
930A: Universal fiber transceiver module
980A: RF auto-changeover module
980B: Timecode auto-changeover module
980C: 1PPS auto-changeover module

Included with Shipment

Mains cable (to power module 911)
 User manual
 2 year warranty

¹The warranty period may be dependent on country.