

DIGITAL MODULATOR - DEMODULATOR MD 34

MD 34 digital modulator-demodulator provides high quality transmission of 34,368 (or 16x2,048 asynchronous) Mbit/s digital signals at terminal or back to back radio-relay stations.

MD 34-01 provides 34,368 Mbit/s data stream interface and processing for further transmission via radio-relay channels, 70 MHz IF 4-phase PSK modulation, input and output signals monitoring, AIS detection and generation, equipment modules monitoring, BER estimation and indication, based upon pseudo random data sequence processing (for out of service measurement mode), or by parity bit check (for in service measurement mode).

MD 34-02 additionally provides up to 16x2,048 Mbit/s signal multiplex/demultiplex to 34,368 Mbit/s signal.

MD 34-03 in addition to MD 34-01 functions also provides both directions asynchronous add/drop mux of up to 4x2,048 Mbit/s streams from primary 34,368 Mbps stream at radio-relay back to back stations.

MD 34-05 and MD 34-07 options presume operation at multichannel systems in accordance with "1+1" or "1+N" scheme and include hitless switching unit.

Modulators-demodulators operation temperature +5°C to +40°C.

Modulators-demodulators power supply - — (19.....72) V DC.

Russian Ministry of Telecommunication Certificate № OC/1-PPC-102.

PERFORMANCE

Bit rate, Mbps	34,368 or 16x2,048
IF, MHz	70
Interface, G.703	
34,368 Mbit/s	75 Ω HDB3
2,048 Mbit/s	120 Ω HDB3
Modulation	4- PSK - offset
S/N for BER=10 ⁻³ , dB	14
PLL recovery carrier band at demodulator input,	≥±4 MHz
IF signal level:	
output	(450±50) mV
input	(125...500) mV
Power consumption, W, max	25
Dimensions	430x370x110
Mass, kg, max	5,0