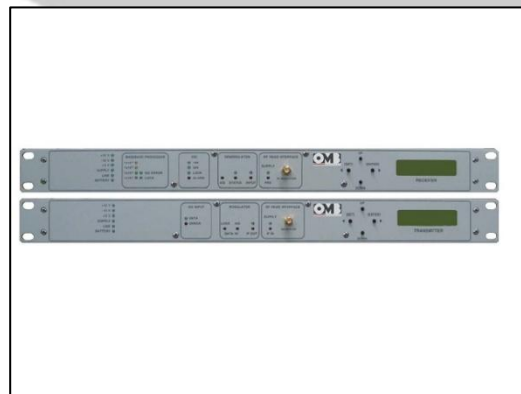


MICROWAVE LINK QPSK

The innovative "QPSK" series of Digital Microwave Link for fixed applications represents the latest development based on OMB technological experience and knowledge. It is a Digital Microwave Link, extremely compact, flexible and competitively priced.



MAIN ADVANTAGES

- Versatile multi data rate Modulator / Demodulator in a single Rack 1U, digital modem for point to point or point to multipoint communication link.
- "QPSK" series is available in QPSK modulation schemes. The available interface is: ASI TS.

GENERAL CHARACTERISTICS

STANDARD PRIMARY POWER	230 VAC $\pm$ 15% 50 Hz $\pm$ 2 Hz 115 VAC $\pm$ 15% 60 Hz $\pm$ 2 Hz
OPTIONAL BATTERY POWER	24 VDC (20 to 28 VDC) 48 VDC (36 to 75 VDC) optionally
DIGITAL INPUT/OUTPUT INTERFACE	
BASE BAND INTERFACE	Comply with (CCITT G.703)
IMPEDANCE	75 Ω (Unbalanced)
LINE CODE	HDB3
BIT RATE	Up to 34 Mbit/s
MPEG TSI (EN50083-9)	7 to 31.368 Mbit/s payload TS
ASI INPUT	1 x BNC 75 Ω Return loss >15 dB (from 5 to 270MHz) Automatic cable adaptation
ASI OUTPUT	2 x BNC 75 Ω 800 mVpp
IF	70 MHz IF MODULATION
TYPE OF MODULATION	QPSK (Offset)
70 MHz IF CARRIER FQ DRIFT	$\leq \pm$ 20 ppm

NOMINAL IF OUTPUT LEVEL	+ 5 dBm
CONNECTION BETWEEN REMOTE RF HEAD AND IF MOD/DEM UNIT	
RECOMMENDED COAXIAL CABLE	RG214
CABLE IMPEDANCE	50Ω
CONNECTOR	Type "N"
MAXIMUM CABLE LENGTH	176 m preferably in multiples of 22m
REMOTE RF HEAD FEED VOLTAGE	+ 24 V nominal
RF	
OPERATING FREQUENCY BANDS	1.5 GHz to 24 GHz
RF CONNECTOR SYSTEM 10 – 14 GHz	waveguide
REMOTE RF HEAD - TRANSMITTER	
STANDARD RF OUTPUT POWER	+24 dBm ± 2 dB (250mW) +28 dBm ± 2 dB (800mW) optional
FREQUENCY DRIFT WITHIN THE RATED	≤± 10 ppm
OPERATING TEMPERATURE RANGE	
SPURIOUS SUPPRESSION	≥ 60 dB
NOMINAL 70 MHZ IF INPUT LEVEL	+ 5Dbm (- 10 to + 5 dBm)
REMOTE RF HEAD - RECEIVER	
NOISE FACTOR	≤ 5 dB
INPUT RETURN LOSS	≥ 20dB
NOMINAL INPUT LEVEL	- 40 dBm
MAXIMUM INPUT LEVEL	- 20 dBm
FREQUENCY DRIFT WITHIN THE RATED	≤± 10 ppm
OPERATING TEMPERATURE RANGE	
RF ALARM THRESHOLD FACTORY SETTING	RF signal for output "BER" = $1 \times 10^{(-3)}$
IMAGE REJECTION	≥ 65 dB
NOMINAL IF GAIN (RF HEAD)	+ 40 dB
MECHANICAL DIMENSIONS AND WEIGHT	
REMOTE RF HEAD	L=260 W=210 H=130 – 4 Kg
IF MOD/DEM UNIT 19"	L=335 W=483 H=44 – 5 Kg
MECHANICAL DIMENSIONS AND WEIGHT	
REMOTE RF HEADS OPERATING	- 20 °C to + 45 °C
TEMPERATURE RANGE	
IF MOD/DEM UNITS OPERATING	- 5 °C to + 45 °C
TEMPERATURE RANGE	
STORAGE TEMPERATURE RANGE	- 40 °C to + 70 °C

* The images and/or technical specifications are subject to change without previous notice.

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