

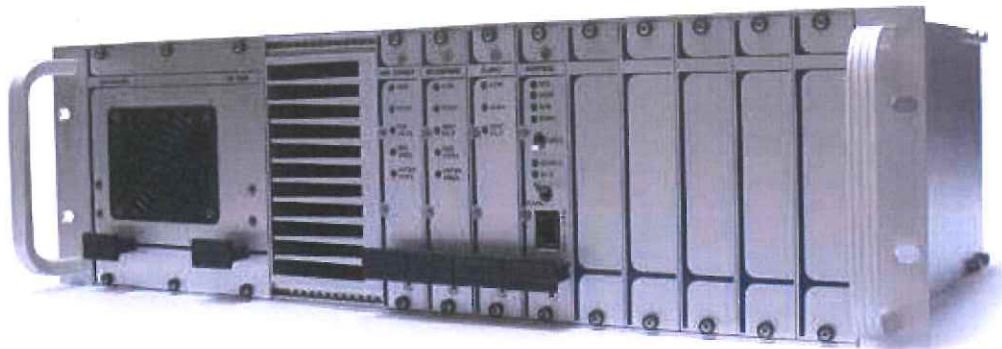
4700 Fixed Type Repeater

General Features

- Modular Design
- 19" Rack Structure
- Duplex Communication
- Adjustable RF Output Power
- Ethernet/IP Interface
- Continuous Duty
- Capability of being supplied by an accumulator (In case of electricity outage)
- Built-in Self Test and Alarm Indication
- Support of Analog, DMR and P25 Systems (with required software changes)
- Full Compatibility with ETSI 300-086 (Analog), ETSI 300-113 (Digital:DMR) and TIA-102.CAAB-D (Digital:P25) standards

Digital Features

- Repetition of Base Band Signal without Decryption
- Regeneration of Digital Voice & Data with Error Detection and Error Correction Algorithms
- Digital Modulation: 4FSK (DMR), C4FM (P25)



General Technical Specifications

Frequency Range	VHF: 136-174 MHz (D/R 4741) UHF: 380-470 MHz (D/R 4745)
Channel Separation	12.5 kHz (DMR or P25) 25 kHz (Analog)
Number Of Channels	99 (Programmable)
RF Output Power	VHF: 10-90 W UHF: 10-70 W
Modulation	FM (Analog), 4FSK (DMR), C4FM (P25)
Operating Voltage	13.6Vdc \pm 20%
Standby Current	\leq 700 mA @ 13.6 Vdc
Operating Current	\leq 20 A @ 13.6 Vdc
Dimensions (HxWxL)	\approx 133x482x361 mm (without accessories)
Weight	\approx 10.5 kg (without accessories)
Operating Temperature	-30 °C / +60 °C
Storage Temperature	-40 °C / +85 °C
Humidity	90 % @ 50 °C

Receiver Technical Specifications*

Analog Sensitivity	VHF : \leq -119 dBm (@ 12 dB SINAD) UHF : \leq -118 dBm (@ 12 dB SINAD)
Digital Sensitivity	DMR: VHF: \leq -117 dBm (@ 1% BER) UHF: \leq -116 dBm (@ 1% BER) P25: VHF: \leq -120 dBm (@ 1% BER) UHF: \leq -119 dBm (@ 1% BER)
Adjacent Channel Selectivity	\geq 60 dB (@ 12.5 kHz)
Co-Channel Rejection	\geq -12 dB (DMR) \leq 9 dB (P25)
Bit Error Rate Floor	\leq 0.01%
Receiver Audio Distortion	$<$ 5% (@ 100 mW, 8 Ω)

Transmitter Technical Specifications*

RF Output Power	VHF: 10-90W / UHF: 10-70W
Adjacent Channel Power Ratio	$>$ 60 dB (@ 12.5 kHz)
Spurious Emissions	$<$ -36 dBm (DMR) / $<$ -20 dBm (P25)
Modulation Limiting	\pm 2.5 kHz (@ 12.5 kHz)
Frequency Stability	\leq 0.5 ppm

*According to ETSI Standards