

Applications:

- **Fiber to the Home Multiple Dwelling Units**
- **Mid-rise Apartments**
- **Garden-Style Apartments**
- **Condos and Townhomes**
- **Long-term Care Facilities**

Key Highlights:

- **Up to 14 RF QAM channels with 38 MHz bandwidth per QAM**
- **7 or 14 QAM available**
- **Upconversion to 50 - 860 MHz RF output (also available without upconversion)**
- **MPEG 2 or 4**
- **Optional Verimatrix decryption**

The ReadyLinks Smart Edge QAM-1000 (SEQ-1000) delivers the industry's highest density multi-service IPTV digital edge QAM modulation solution. The single rack unit SEQ is scalable, programmable and field-upgradeable, offering a cost-effective, digital TV/Video delivery platform that supports digital TV distribution in Multi-dwelling unit (MDU) environments. The dynamic SEQ expedites deployment of digital video services while reducing operation and management costs in multi-dwelling unit environments.



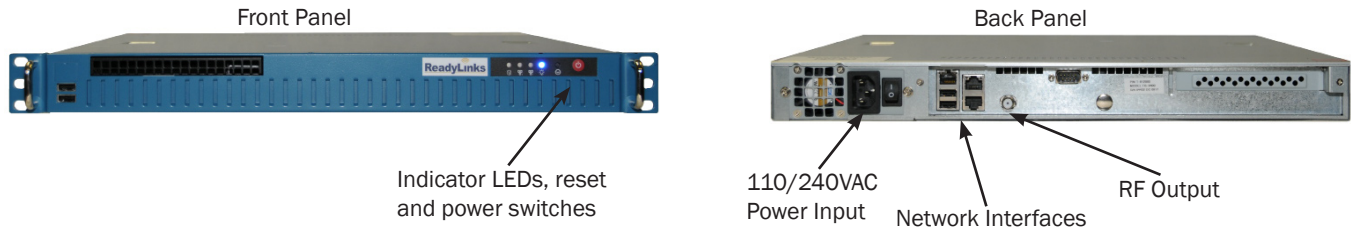
As IPTV service providers rapidly move into the business of offering fiber based direct GiGE transport to multi-dwelling units (MDU) the challenge is to offer a TV solution that does not immediately require an IPTV STB nor does it require rewiring to CAT 5/6 to every TV outlet. In an MDU environment a future proof solution is required that uses existing coaxial outlets that can both support a standard digital TV channel line up and optionally provide the ability to offer advanced TV services such as Video on demand and PVR capabilities.

ReadyLinks by introducing its Smart Edge QAM (SEQ-1000) video processing platform can provide an end point TV distribution solution in MDU environments for IPTV Service providers. In addition by seamlessly complementing the SEQ-1000 with the IPC-14x0 MDU HPNA products IPTV STB can be deployed in a pay as you grow manner for advanced TV services.

Benefits:

- Scalable from 40 Channel digital SDTV line up with 7 or 14 QAMs
- Reuse existing coaxial cable plant in MDU
- No IPTV STB required for basic TV line up
- Compatible with HPNA MDU solutions with IPTV STB
- Decodes MPEG 2 or MPEG 4
- Optional Verimatrix decryption available

SEQ-1000 Interfaces



Functional Specifications

- IPTV UDP/RTP MPEG-2 and MPEG-4 Transport streams
- Data can be any combinations of single program transport streams (SPTS)
- MPEG-2 and MPEG-4 multiple program transport stream (MPTS)
- Modulated with 16QAM, 32QAM, 64QAM, 128QAM, or 256QAM
- Variable symbol rates up to 7 Msymbols/second
- Output carrier: 50 - 860 MHz RF with 12.5KHz resolution

Specifications	
Environmental Specifications	
Operating Temperature	5 to 60° C
Input Voltage, Power Consumption	100-240 Volts AC (50-60 Hz), 350 Watts
Humidity	0 to 90% non-condensing
Certifications	UL, CE, CUL, FCC Part 15 Class B, EMC 89/336/EEC, ICES-003
Network Ports	
Network Interfaces	Two 10/100/1000 Ethernet RJ-45 port
RF Specifications	
Output Frequency	50 to 860 MHz
Frequency Stability	±12 ppm
RF Output Level	45 dBmV min., >55 dBmV max.
Flatness	±1 dB
Output Impedance	75 Ohms
Output Connector(s)	F type
RF Output Return Loss	14 dB min., 16 dB typ.
Inband Spurious	-48dBc
Broadband Noise	-12 dBmV
Mechanical Specifications	
Dimensions, Weight	15"(L) x 19"(W) x 1.75"(H), (381mm x 483mm x 45mm), 14 lbs.

Note: specifications are subject to change. v1.3

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