ReadyLinks

IPcoax™ 602
ITU G.9954 Interface
Coax Ethernet Bridge

Applications:

- IP Video Cameras over existing or new coax
- Video Surveillance
- Building Automation
- Perimeter Security
- Transportation Systems
- IP Factory Floor

Key Highlights:

- ITU Standards based
- Fast Installation
- Dynamic Bandwidth Allocation
- 2 RJ-45 Ethernet Ports support 2 devices
- Coax can now be shared between IP Cameras
- Quality of Service and VLAN Termination
- Status Indicator LEDs
- Remote management of in-building 602 units

The IPcoax 602 Coax Ethernet Bridge enables IP-based Video, Data and VoIP applications over existing coax cabling.

Flexible Method for Connecting IP-based Devices

The use of IP-based devices such as IP Video Cameras is growing exponentially. The best alternative is to use the existing coax cabling that was used by analog cameras and legacy devices.

602 - The Ideal Solution for Utilizing Existing Coax

Instant IP Video Camera access to any coax cable without rewiring:

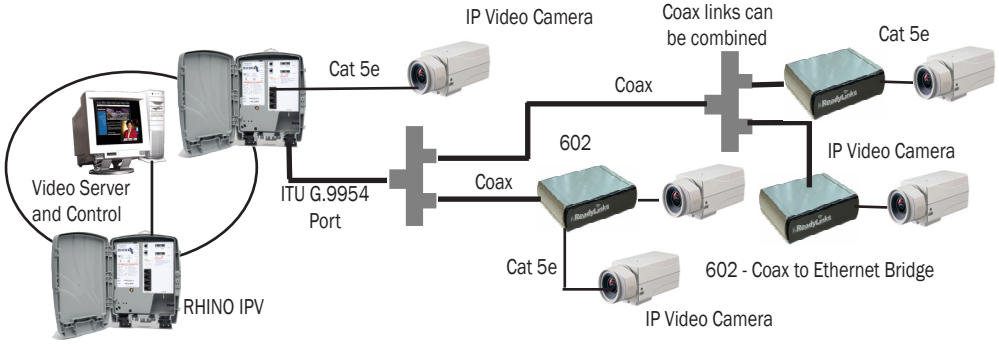
- Fast, secure and reliable solution reduces installation time
- Dynamic bandwidth allocation optimizes throughput based on activity
- Quality of Service and VLAN termination and tagging
- Extends fiber optic data speed onto existing coax wiring

Open Standards Based

The IPcoax 602 supports the ITU-T G.9954 standard for Ethernet over coax.

IPcoax 602 IP Video Deployment Example:

The Client 602 is connected to existing Coax and the IP Video Camera is plugged into the 602 Ethernet Port. The 602s direct connect or are muxed back to a Master which can be another 602 or a RHINO IPV.



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IPcoax 602 Interfaces

Rapid One Step Provisioning, Multiple Management Options

- Easy Plug and Play installation
- Remote management of 602 units in the home network reduces truck rolls
- ReadyLinks BONUS Graphical User Interface shows status of all 602 units in the coax network and shows network performance statistics such as packet loss and signal to noise ratio.

Specifications	
Environmental Specifications	
Operating Temperature, Storage Temperature	0 to 40° C, -25° C to 70° C
Input Voltage, Power Consumption	4 to 30 VDC @ 2 A, AC transformer 100-240V (50-60 Hz)
Humidity	10 to 90% non-condensing
Certifications	UL, CE, CUL, FCC Part 15 Class B, EMC 89/336/EEC, ICES-003
WAN and Service Ports	
HPNA 3 Connectivity	One (1) Coax Connector. Data rate: 128Mbps Physical Layer with 90+ Mbps Effective. Frequency: 4 to 20 MHz
Ethernet Interface	Two 10/100 Ethernet RJ-45 ports, Automatic MDI/MDIX crossover for 100BASE-TX and 10BASE-T ports, High performance look-up engine with support for up to 2048 MAC address entries with automatic learning and aging. Full IEEE 802.1Q VLAN ID processing, dynamic VLAN membership and VLAN tagging selectable per port. Port-based VLANs supported in any combinations or 802.1Q VLAN support for up to 16 VLANs.
Compatibility	Standard CATV (Ch 2-130), VOD entertainment systems, Compatible with DOCSIS, Passive cable architecture
Modulation Type	Adaptive FDQAM and QAM, 2 to 16 Mbaud with 2-8 bit constellations
Robustness	High immunity to RF and impulse noise. Adapts to varying line conditions
Protocol Layer Features	Master-controlled and peer-to-peer, MAC protocol, Link-layer Control Protocol, Convergence Sublayer Bridging External Networks and Protocols, Local and Remote Management
Quality of Service	Negotiated QoS flow parameters between devices at the endpoints of a flow in order to establish buffering and channel (BER/PER) constraints. Contract between flow source device and Master constrains bandwidth, latency and jitter. Traffic classification - management, voice video and data
Standards Compliance	IEEE802.3, IEEE802.3u, IEEE802.x, IEEE802.1D, IEEE802.1Q VLAN ID, ITU-T G.9954
Mechanical Specifications	
Dimensions, Weight	3.25”(L) x 4.25”(W) x 1.25”(H), (82.5mm x 108mm x 31.75mm), 0.5 lbs.

Note: specifications are subject to change. v1.2

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