

### Applications:

- Fiber to the Home for Multiple Dwelling Units
- Extended Care Facilities
- Campus Dormitories
- Medical Facilities
- High Speed Internet Delivery with RF CATV
- Anywhere IP-based Triple Play services are to be delivered over existing coax wiring

### Key Highlights:

- Open Standards based
- Fast Installation
- 2 Ethernet SFP LAN/WAN Ports for GigE Networks
- 24 coax ports for Triple Play IP Services - IPTV, Internet and VOIP
- Also works with existing RF CATV Video
- Quality of Service and VLAN Termination
- Remote management of 2400 and attached 402 HPNA 3 clients in Units

The IPcoax 2400 Gigabit Ethernet Coax Switch enables FTTH IP-based Video, Data and VoIP applications over existing coax cabling. The 2400 is an ideal solution for Fiber to the Home deployments in Multiple Dwelling Unit applications where a single IP service is to be delivered to the Unit.



### ***Flexible Method for Delivering IP-based Services over Existing Coax***

Delivery of FTTH IP-based Triple Play services to Extended Care Facilities, Dormitories, Barracks, and Medical Facilities is a key demographic for service providers. These properties present a difficult deployment environment. It is often desirable to use the existing coax infrastructure to deliver these FTTH services.

### ***IPcoax 2400 - The Ideal Solution for Utilizing Existing Coax***

Easy service delivery to units using existing coax cable means no 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 and Compatible with Existing RF Video***

The IPcoax 2400 supports Gigabit Ethernet for optical delivery to the MDU and the HPNA 3 standard for Ethernet over coax. Existing RF CATV and HPNA can share the same coax cable to be split combined in the unit.

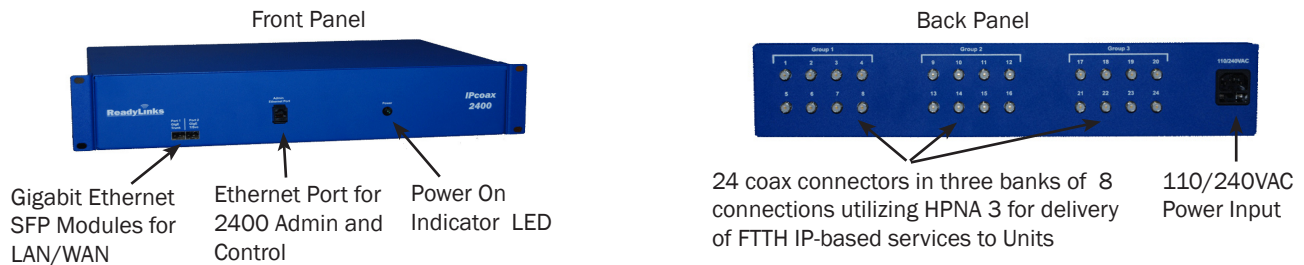
### ***IPcoax 2400 IP Video Deployment Example:***

A 2400 supports up to 24 HPNA point to point drops. Each of these drops supports a single FTTH service - IPTV, VOIP or Internet. Each coax drop terminates on a 402 client that converts the coax to an RJ-45 Ethernet connection.

IPcoax 2400 transports FTTH IP-based Services to 24 Units using coax



## IPcoax 2400 Interfaces



## Rapid One Step Provisioning, Multiple Management Options

- Easy Plug and Play installation
- Remote management of 2400 and attached 402 clients in each Unit reduces maintenance calls
- ReadyLinks BONUS Graphical User Interface shows status of 2400 and all 402 units in the coax network and displays network performance statistics such as packet loss and signal to noise ratio.

Specifications	
<b>Environmental Specifications</b>	
Operating Temperature, Storage Temperature	0 to 40° C, -25° C to 70° C
Input Voltage, Power Consumption	110-240 Volts AC (50-60 Hz)
Humidity	10 to 90% non-condensing
Certifications	UL, CE, CUL, FCC Part 15 Class B, EMC 89/336/EEC, ICES-003
<b>WAN and Service Ports</b>	
HPNA 3 Connectivity	Twenty Four (24) Coax Connectors. Data rate: 128Mbps Physical Layer with 100Mbps Effective. Frequency: 4 to 20 MHz
Ethernet Interface for Administration	One 10/100 Ethernet RJ-45 port, Automatic MDI/MDIX crossover for 100BASE-TX and 10BASE-T ports for local craft access
WAN/LAN Connectivity	Two (2) SFP sockets supporting 1Gbps symmetrical Ethernet. Works with dual or single fiber, single mode or multi-mode, short, medium or long reach SFPs. Supports copper SFPs
Ethernet Characteristics Over Ethernet SFP 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 port selectable
Compatibility	All Ethernet Switch/Routers on LAN/WAN ports, HPNA 3 client devices on coax ports
Modulation Type on Coax	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 Client 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,
<b>Mechanical Specifications</b>	
Dimensions, Weight	12”(L) x 19”(W) x 3.5”(H), (301mm x 408mm x 88mm), 9 lbs.

Note: specifications are subject to change. v1.3