

# IP DSLAM

## Scorpio 2420



### Description

To meet the increasing demand for high speed Internet access and voice service, TAINET Scorpio 2420 offers service providers a cost-effective solution for immediate implementation of multi-service and is applicable in both private and public networks.

The Scorpio 2420 is a compact IP-based DSLAM providing 48 ports of ADSL with built-in POTS splitters to allow carriers and services providers to offer high-speed data and voice services to areas served through existing copper wires.

Additionally, the Scorpio 2420 has a built-in eight 10/100 Base-Tx Ethernet switch that features high performance Ethernet switch functions including 802.1d, 802.1q, 802.3ad and IGMP snooping. Two ports can be used as uplinks and six ports for subtending. The uplink interface is a modulated design facilitating exchange to 1000 Base-LX or 10/100 Base-Tx for carriers. Two 10/100 Base-T uplinks with 802.3ad port trunking are available in the Scorpio 2420 to deliver more bandwidth for the uplinks by combining two 100Mb physical links into a logical link. The Scorpio 2420 is able to subtend via Ethernet interfaces, and multiple Scorpio 2420 interfaces can be connected by Star or Daisy chain architecture from a single node up to seven nodes. The Scorpio 2420 can be managed using SNMP-based Network Management System (NMS) to enable remote configuration control and update system status, performance, information, alarm events to service provider.

These solutions and features deliver the best cost/performance-effective for carriers and service providers when providing broadband access to the Internet for MTU/MDU/MHU applications such as Building/Hotel/Hospital/School etc.

### Features

- 1.5 U High 48 ports of ADSL
- 802.3, 802.3u, 802.3x, 802.1q, 802.1p, 802.1p, 802.3ad compliant
- IGMP snooping
- Modulated uplink interface, 1000Base-Lx or 10/100Base-Tx/Fx
- Scalable design for subtending with five remote devices
- Maximum 336 ADSL links by cascading

## Specifications

### ADSL Standard

- ANSI T1.413 Issue 2, ITU-T G.992.1 (G.dmt), G.992.2 (G.lite), and G.992.4 (G.hs)
- G.dmt: 8Mbps downstream and 768Kbps upstream
- G.lite: 1.5Mbps downstream and 512Kbps upstream

### Layer 2 Functions

- 802.3
- 802.3u
- 802.3x (Flow control)
- 802.1q (Port-based VLAN)
- 802.1p (Priority queuing, QoS)
- 802.1s (Multiple Spanning Trees)
- 802.3ad (Port trunking)
- IGMP snooping
- Packet Filter based on MAC and Port
- Broadcast Storm Control
- Port Monitoring

### ATM Functions

- ITU-T I.361
- UNI 3.1/4.0
- UBR, CBR, rt-VBR, nrt-VBR
- RFC 2684/1483 Bridge
- RFC 2516 PPPoE and RFC 1577 IPoA packet forwarding
- OAM F4/F5 loopback test function

### WAN Interface

1000 Base-LX, 802.3z compliant

- Wavelength: 1270~1355nm
- Maximum average launch power: -3dBm
- Minimum average launch power: -11.5dBm
- Receiver sensitivity: -19dBm
- Connector type: FC or SC

10/100 Base-Tx, 802.3/802.3u compliant

- Supporting full and half duplex modes
- Transmission distance: at least 100m for Cat.5 UTP
- Connector type: RJ-45

100 Base-Fx, 802.3U compliant

- Wavelength range 1270~1355nm
- Maximum average launch power: 0dBm
- Minimum average launch power: -5dBm
- Receiver sensitivity: -34dBm
- Connector: FC or SC

### Subtending Interface

- Six RJ-45 auto sensing 10/100 Base-Tx
- Ethernet Ports

### Local Management LAN Port

- One RJ-45 auto sensing 10/100 Base-Tx

### Build-in POTS Splitter

#### LED

- Powers, Alarm Link/Activity for Ethernet Port for ADSL Port

### Power Requirement

- 100~240 VAC or -48 VDC

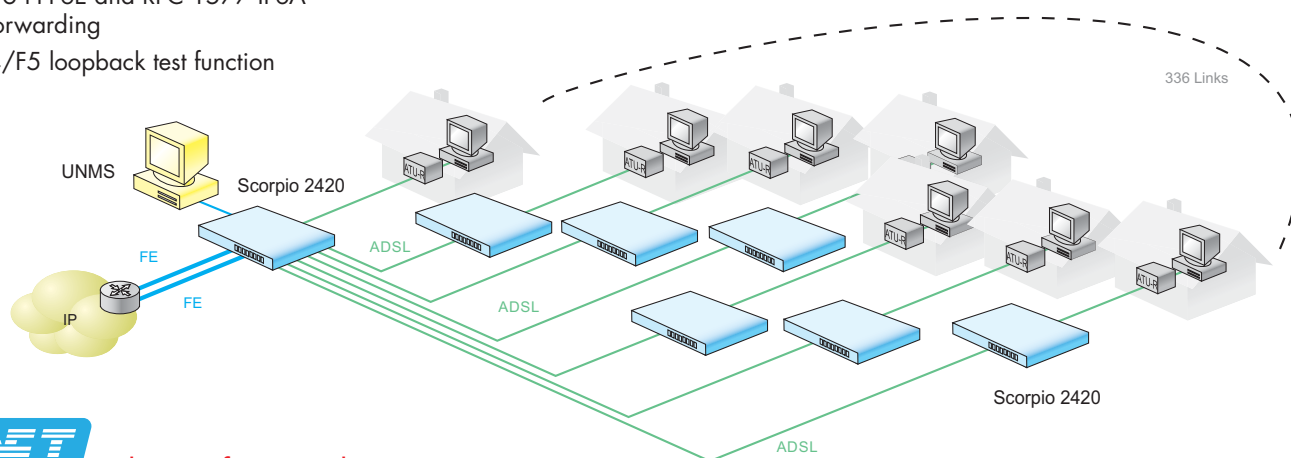
### Operation Environment

#### Indoor

- Ambient Temperature: -5°C~40°C
- Relative Humidity: 20% ~85% (non-condensed)

#### Outdoor

- Ambient Temperature: 0°C~50°C
- Relative Humidity: 10% ~95% (non-condensed)



The Professional Partner

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